Final RFI Summary Report

Facility Lead Corrective Action

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LIST OF ACRONYMS

AOC – Area of Concern
BERA – Baseline Ecological Risk Assessment
CMS – Corrective Measures Study
COI – Constituent of Interest
CPEC – Constituent of Potential Ecological Concern
DAF – Dilution Attenuation Factor
EE – Ecological Evaluation
EI – Environmental Indicator
LF – Old Landfill and Landfill #156
GPS – Global Positioning System
HASP – Health and Safety Plan
HHRA – Human Health Risk Assessment
HI – Hazard Index
HQ – Hazard Quotient
IRIS – Integrated Risk Information System
LOAEL – Low-Observable-Effects Level
MCL – Maximum Contaminant Level
MDL – Method Detection Limit
mg/kg – milligrams per kilogram
mg/L – milligrams per liter
MHB – Main Holding Basin
NAT – Natrosol Lagoon
NFA – No Further Action
NOAEL – No-Observable-Effects-Level
PCB – Polychlorinated biphenyls
ppm – parts per million
QAPP – Quality Assurance Project Plan
QA/QC – Quality Assurance / Quality Control
RAB – Reten Aqualon Basin
RBSL – Risk Based Screening Level

RCRA – Resource Conservation and Recovery Act

RFA – RCRA Facility Assessment

RFI – RCRA Facility Investigation

RL – Reporting Limit

SAP – Sampling and Analysis Plan

SDB – Sludge Drying Beds

SISR – Site Investigation Summary Report

SLERA – Screening Level Ecological Risk Assessment

SSL – Soil Screening Level

SVOC – Semi-Volatile Organic Compound

SWI – Solid Waste Incinerator

SWMU – Solid Waste Management Unit

TAL – Target Analyte List

TIC – Tentatively Identified Compound

TKN – Total Kjeldahl Nitrogen

TOC – Total Organic Carbon

TPI – Teepee Incinerator

TPPO – Triphenylphosphine oxide

µg/dL – micrograms per deciliter

µg/kg – micrograms per kilogram

µg/L – microgram per liter

USEPA – United States Environmental Protection Agency

VADEQ – Virginia Department of Environmental Quality

VFSP – Vacuum Filter Sludge Pile

VOC – Volatile Organic Compound

VPDES – Virginia Pollution Discharge Elimination System

VVRP – Virginia Voluntary Remediation Program

WQS – Water Quality Standard

WWL – Whitewater Lagoon

1.0 INTRODUCTION

This Final Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Summary Report has been prepared on behalf of Hercules Incorporated (Hercules) for the Ashland Aqualon Functional Ingredients (formerly Hercules Incorporated) facility located at 1111 Hercules Road in Hopewell, Virginia. The Final RFI Summary Report is intended to summarize all phases of field investigations, provide a timeline and rationale for eliminating Solid Waste Management Units (SWMUs) from further evaluation, and present the human health and ecological risk assessments. For further details regarding the information summarized herein, the reader is directed to the previously submitted documents.

The Final RFI Summary Report serves as a comprehensive site investigation report that summarizes work conducted to date under the Facility Lead Corrective Action Program. Specifically, this report summarizes SWMU status determination for the site, results of the Phase I, II and III Investigations and current SWMU status. All of the work conducted to date at the site has been previously documented in the following reports and/or deliverables submitted to the United States Environmental Protection Agency (USEPA):

- Facility Lead Corrective Action Agreement Workplan (October 2001);
- Hydrogeologic Evaluation (June 2002);
- Environmental Indicators (September 2004);
- Phase I/II RFI Report (September 2005); and,
- Phase III Site Investigation Summary Report (SISR) (November 2007).

Table 1 summarizes the aforementioned deliverables along with their respective submittal and USEPA approval dates.

This report summarizes the results of the 2009 Supplemental Phase III Investigation as well as the 2011 site-wide groundwater sampling event and geochemical evaluation. The complete analytical reports for both sampling events are included as attachments to this report.

This report is also appended by the Human Health Risk Assessment (HHRA) (**Attachment A**) and the Baseline Ecological Risk Assessment (BERA) (**Attachment B**) for the site. The risk evaluations at the site were conducted for the remaining SWMUs and areas of interest (i.e., surface water bodies) by incorporating all of the site-wide validated Phase III Investigation data. The HHRA and BERA will be used to support any recommendations for further action (i.e., assessment or remediation) or no further action at the site.

1.1 Site History

Hercules operates the Ashland Aqualon Functional Ingredients chemical manufacturing facility (Facility) in the City of Hopewell, Virginia. **Figure 1** shows the location of the site on the USGS topographic quadrangle map for Hopewell, Virginia. Located on a 390-acre site in the eastern portion of the City, the Facility reacts several different chemicals with purified cellulose and sodium hydroxide precursor to manufacture lines of chemicals known as cellulose derivatives. The site was initially part of a DuPont guncotton manufacturing facility which operated from 1912 through the World War I era. Hercules first acquired part of the current site in 1926 to manufacture purified cotton cellulose for use in the chemical and paper industry. Today, Hercules operates four derivatives lines and provides its chemical products to a variety of end-users in the food, cosmetics, paint, and pharmaceutical industries.

In 2000, Hercules and USEPA entered into a Facility Lead Agreement for the implementation of Corrective Action under RCRA. The October 2001 *Facility Lead Corrective Action Agreement Workplan* identified 34 SWMUs at the Facility. Upon completion of the review of the operational histories and current status of the units, 24 SWMUs were designated as needing No Further Action (NFA) as detailed in **Table 2** and depicted on **Figure 2**. Specific unit descriptions and supporting evidence for the NFA designations can be found in the October 2001 *Facility Lead Corrective Action Agreement Workplan* previously submitted to and approved by USEPA.

The remaining ten (10) SWMUs were designated as needing further investigative activities. Since the Reten/Aqualon Basin (RAB) was identified under two separate SWMU numbers; there were only nine (9) physical units for evaluation. Two (2) additional SWMUs (SWMU #16 – Solid Waste Incinerator, or SWI, and SWMU #34 – Teepee Incinerator, or TPI) were subsequently granted NFA status following further assessment as documented in the November 2007 *Phase III Site Investigation Summary Report (SISR).* The following list of SWMUs has been retained:

- SWMU #3: Eastern Whitewater Lagoon (WWL);
- SWMU #4: Western Whitewater Lagoon (WWL);
- SWMU #5: Old Landfill and Landfill #156 (LF);
- SWMU #7: Natrosol Lagoon (NAT);
- SWMU #8 and #29: Reten/Aqualon Basin (RAB);
- SWMU #14: Sludge Drying Beds (SDB); and
- SWMU #15: Vacuum Filter Sludge Pile (VFSP).

Figure 2 depicts the location of the seven (7) remaining SWMUs as well as the locations of SWMUs granted NFA status and various other existing site features on the Hercules site. Groundwater associated with the Main Holding Basin (SWMU #1) was also retained for further assessment as detailed in Section 4.1.7 of the November 2007 *Phase III SISR*. In addition, the various surface water bodies within (i.e., West Bear Creek, East Bear Creek and the Unnamed Tributary) and adjacent to the site (i.e., Bailey Creek and Cattail Creek) were characterized and included in the risk assessments.

1.2 Investigative History and Regulatory Background

1.2.1 Phase I and II Investigations

The October 2001 *Facility Lead Corrective Action Agreement Workplan* contained the documents necessary to implement the first phase of field investigation. The Phase I Investigation was conducted in December 2001, and included the evaluation of environmental samples from the following five SWMUs: RAB (#8/29), SDB (#14), VFSP (#15), SWI (#16) and TPI (#34). A limited summary of the sampling results from the Phase I Investigation was provided to the USEPA in the February 2002 *SWMU Summary Information Report – Phase I Investigation.*

In 2002, Hercules prepared and submitted the *Phase II Sampling and Analysis Plan (SAP)* outlining a proposed second phase of field investigation. The Phase II Investigation was conducted in November 2002, and included the installation and sampling of nine (9) groundwater monitoring wells. The new monitoring wells were sited to evaluate groundwater quality downgradient of the following three SWMUs: Eastern WWL (#3), Western WWL (#4) and LF (#5). A limited summary of the sampling results from the Phase II Investigation was provided to the USEPA in the April 2003 *SWMU Summary Information Report – Phase II Investigation*.

Based largely on the information obtained from the first two phases of field investigation, the Facility's two Environmental Indicators (EIs), *Current Human Exposures Under Control* and *Migration of Contaminated Groundwater Under Control*, were prepared in September 2004. The evaluation of the two EIs resulted in "Yes" determinations, indicating USEPA's agreement that potential human exposures and contaminated groundwater were "under control" at the Facility.

In September 2005, Hercules prepared and submitted the *Phase I/II RFI Report* to formally document the results of the first two phases of field investigations. The report was also intended to evaluate the need for additional investigative and/or remedial actions (if any) at the subject SWMUs. The USEPA provided written comments to the *Phase I/II RFI Report* in August 2006. Hercules incorporated USEPA recommendations into the April 2007 *Phase III SAP* and included those recommendations as part of the subsequent field investigation. Responses to the USEPA's comments were later incorporated into the November 2007 *Phase III SISR*.

1.2.2 Phase III Investigation

In April 2007, Hercules prepared and submitted the *Phase III SAP – Revision No. 1 (Phase III SAP)*, which was an addendum to the original October 2001 *Facility Lead Corrective Action Agreement Workplan.* The April 2007 *Phase III SAP* incorporated responses to comments received in March 2007 from the USEPA on the originally submitted *Phase III SAP (*GES, February 2007*)*. The revised *Phase III SAP* outlined a proposed third phase of field investigation and included an updated Quality Assurance Project Plan (QAPP) and Health & Safety Plan (HASP). The USEPA subsequently approved the *Phase III SAP* in a letter dated April 25, 2007. A copy of the USEPA approval letter is included in **Attachment C**.

The Phase III Investigation was conducted in May and June 2007. The comprehensive investigation included the collection of samples at the following SWMUs: Eastern WWL (#3), Western WWL (#4), LF (#5), NAT (#7), RAB (#8/29), SDB (#14) and VFSP (#15) as well as the installation of four (4) new groundwater monitoring wells, site-wide sampling of the entire groundwater monitoring well network (with the exception of MW-5D and RABMW-1) and confirmatory PCB sampling. In addition, an Ecological Evaluation (EE) was performed along with the collection of samples from ecological habitat in support of a Screening Level Ecological Risk Assessment (SLERA).

In November 2007, Hercules submitted the *Phase III SISR* which documented the results of the third phase of field investigation and incorporated USEPA's written comments on the September 2005 *Phase I/II RFI Report*. The *Phase III SISR* also included the results of the EE and the SLERA report as an attachment. The USEPA provided Hercules with written comments on the *Phase III SISR* in May 2008. Following a meeting with the USEPA in October 2008, Hercules submitted the *Final Response to Comments on the Phase III SISR* in December 2008.

In September 2009, the USEPA provided Hercules with additional technical comments on the December 2008 *Final Response to Comments on the Phase III SISR*. Following Hercules' submittal of draft responses to USEPA's comments and a meeting with USEPA, Hercules submitted the *Final Response to Comments on the Final Response to USEPA's Comments on the Phase III SISR* in November 2009. The response to comments document was subsequently approved by USEPA in December 2009. A copy of the USEPA approval letter is included in **Attachment C.**

1.2.3 Supplemental Phase III Investigation

As indicated in the May 2008 comments on the *Phase III SISR*, the USEPA requested that SWMUs #14 (SDB) and #15 (VFSP) be evaluated as wetland habitat in the ecological assessment of the site. In addition, USEPA requested delineation of an elevated lead concentration detected at sample location OLF-4 at SWMU #5 (LF) during the 2007 Phase III Investigation. In response to the USEPA's request for additional sampling from these units, Hercules prepared and submitted the *Workplan*

for Additional Sample Collection in March 2009. The Workplan outlined the proposed collection of surface water samples and benthic macroinvertebrate samples from SWMUs #14 (SDB) and #15 (VFSP) and soil samples from SWMU #5 (LF). Following Workplan approval by the USEPA, Hercules conducted the field activities in late March 2009. The results of those field activities are presented in **Section 3.4** of this report.

1.2.4 TIC Evaluation

As indicated in the May 2008 comments on the *Phase III SISR*, the USEPA requested additional characterization of the unknown Tentatively Identified Compounds (TICs) detected at the site during the 2007 Phase III Investigation. During a teleconference with USEPA in October 2008, Hercules presented a proposed TIC evaluation process that would include the grouping of unknown TICs into chemical classes prior to their incorporation into the site-specific risk assessments for the site. As part of the process, Hercules proposed to submit an interim report to the USEPA following the grouping of the TICs into chemical classes in order to gain concurrence from USEPA prior to carrying the TICs forward through the additional steps of the human health and ecological risk assessment process.

In December 2009, Hercules submitted the *Interim TIC Submittal* for USEPA's review prior to completion of the human health and ecological risk assessments for the site. The USEPA subsequently requested third-party review of the TICs identified in the December 2009 submittal. Following the third-party review, in July 2010, Hercules prepared and submitted a *Supplemental Interim TIC Submittal* that outlined the path forward with respect to the incorporation of the TICs into the risk assessments for the site. The USEPA approved the proposed path forward in July 2010. A copy of the USEPA approval via electronic mail is included in **Attachment C.**

Additional information regarding the TIC evaluation is included in the HHRA and BERA, included as **Attachments A** and **B**, respectively.

1.2.5 2011 Site-Wide Groundwater Sampling Event and Geochemical Evaluation

In April and May 2011, Hercules collected a comprehensive round of groundwater samples from the site monitoring well network in order to evaluate the spatial and temporal data trends of the dissolved-phase plumes at the site. In addition to the collection of dissolved data, Hercules also collected soil data for geochemical/geotechnical analysis. These data, combined with the dissolved data, were incorporated into a site geochemical evaluation which was designed to quantify aquifer geochemistry in and around the retained SMWUs as it pertains to the potential for the aquifer to biodegrade the site-related organic constituents. The sampling events are described in further detail in **Section 3.5** and the results of the geochemical evaluation are included in **Section 9.0**.

1.3 Objectives

Hercules has continued the implementation of the RCRA Corrective Action Program under the Facility Lead Agreement. Preparation of this Final RFI Summary Report was requested by the USEPA Project Manager (Mike Jacobi) in a November 9, 2009 meeting and was intended to meet four (4) primary objectives:

- To summarize the previous assessment reports and to transmit the HHRA and BERA;
- To document the 2011 Groundwater Sampling Event and Geochemical Evaluation;
- To serve as a precursor to a Corrective Measures Study (CMS) for the site; and
- To incorporate a timeline rationale for eliminating SWMUs from further evaluation.

2.0 ENVIRONMENTAL SETTING

The following sections describe the regional and site-specific physiographic, geologic, and hydrogeologic conditions pertinent to the site. Much of the information was summarized from the various investigative reports that have been previously prepared for the Facility; see the references list in **Section 11.0** for further information.

The site has been utilized for industrial uses for more than 90 years. Information supporting the Hercules property's current and future industrial land use designation was provided in Section 2.3 of the November 2007 *Phase III SISR*.

2.1 Site Physiography

The site is situated in the eastern portion of the City of Hopewell, Virginia, which lies within the Coastal Plain Physiographic Province. The surface topography is characterized by rolling uplands and valleys that slope towards the James River to the northeast of the site. A series of terraces, formed by the transgression and regression of a marine environment, are situated parallel to the James River in the Hopewell area. These terraces have been modified extensively by fluvial processes.

The main portion of the Facility is located on one of these terraces. Surface drainage generally flows to the south or east to one of a series of small channels which dissect the edge of the flat terrace. The channels drain steeply towards Cattail Creek and Bailey Creek, which form the site's southern and eastern property boundaries. The confluence of the two creeks is located just south of the site. Bailey Creek continues

to the northeast for approximately two miles until eventually emptying into the James River.

2.2 Description of General Geology and Hydrogeology

2.2.1 Regional Geology

Based on review of the available literature, the regional geology is described as consisting of Pliocene and Pleistocene terrace deposits underlain by marine sediments. The Hopewell area is located on the second youngest terrace, which reflects the characteristics of a fluvially deposited feature. The terrace deposit (Quaternary) consists of gravel beds/lenses, sand, silt, and clay that become more coarse with depth. This surface deposit is part of the Columbia aquifer, which is unconfined in the area. The area terrace deposits are underlain by the Tertiary Yorktown, Virginia St. Mary's, and Nanjemoy formations.

These Tertiary deposits overlie the Aqua formation, which is a massive, fine to very fine sand. However, the upper portion of the Aqua formation is marked by the presence of the Marlboro clay unit, a 10 to 12-foot thick unit of gray to red clay. According to the literature, all of these units have been identified at locations to the south of Bailey Creek.

To the north of Bailey Creek, the literature indicates that the presence of the Marlboro clay is uncertain, and neither the Yorktown nor Virginia St. Mary's formations are present. This area has been eroded to the point where the Aqua formation is also no longer present, and the terrace deposits lie on the Cretaceous Potomac formation, or the middle Potomac confining unit. This confining unit consists of silty and sandy micaceous clays, locally interbedded with very thin sands or sandy clays.

2.2.2 Local Hydrogeology

Review of the various boring logs and related reports indicate that the surface stratigraphy below the topographic highs at the Facility is composed of a fairly thick sequence (10 to 30 feet) of silty clay/clay, which is underlain by a layer of gray silty sand. The silty sand layer ranges in thickness from 10 to 20 feet and forms the uppermost aquifer at the site. The aquifer is underlain by a second silty-clay to clay layer, which ranges in thickness from approximately 15 to 20 feet, and appears to be laterally continuous across the majority of the site. With the exception of monitoring well LF-2 along Cattail Creek, where the clay was not observed, isolated lenses of silt and sand have been observed within the clay.

Deeper borings that have penetrated this clay layer have encountered a second sand/gravel aquifer beneath the clay. Based on the data presented in the February 1992 *Groundwater Quality Assessment Program* and April 1993 *Groundwater Quality Assessment Program*, the hydraulic conductivity of the lower clay unit is at least three orders of magnitude lower than the upper sand aquifer (WESTON, 1993),

which suggests that the clay serves as an aquatard between the upper and lower sand units. Three cross-sections (A-A', B-B', and C-C') exhibit the relationship of the major stratigraphic units described above (**Figure 3**).

In general, groundwater from the upper sand discharges to surface water where it overlies the upper clay formation. Historical surface water elevations (see Figure 1-2 in the September 2005 *Phase I/II RFI Report*) confirm this groundwater/surface water relationship. A generalized groundwater contour map was developed based on the groundwater elevations (April/May 2011) measured in the shallow wells screened in the upper sand unit (see **Figure 4**). As depicted on **Figure 4**, groundwater in the shallow sand mimics topography to a large extent. It is interesting to note that the groundwater elevation for the wells installed downgradient (to the east) of the former Sludge Drying Beds indicate that there is a localized "mound" in the vicinity of the drying beds. The groundwater flow in this area is controlled by the deeply incised swales to the northwest, southwest, and to the east (Bailey Creek) of the SWMU.

Given the separation between the water level in the Whitewater (Eastern and Western) and Natrosol Lagoons, and the depth of water in the wells (NAT-2, NAT-3, NAT-4, WWL-1, and WWL-2) adjacent to these surface impoundments, it appears that the surficial clay is retarding vertical groundwater movement from the lagoons to the upper sand.

Vertical hydraulic gradients can also be observed and quantified using the well couplets (5 and 8 series wells) at the site. The data collected as part of the 2011 Phase III field investigation indicate that the groundwater moves from the lower sand unit through the clay and into the shallow sand unit. Historical data presented in the 1993 WESTON *Groundwater Quality Assessment Program – Field Investigation Report* support this observation.

Further information on the site-specific geology and hydrogeology is contained in the June 2002 *Hydrogeologic Evaluation* previously submitted to USEPA. A compilation of the boring logs and well construction diagrams for the site was included as Attachment A to the November 2007 *Phase III SISR*.

2.2.3 Surface Water Bodies

The Facility is characterized by five (5) surface water bodies (Cattail Creek, Bailey Creek, East and West Bear Creeks, and Unnamed Tributary) situated adjacent to and downgradient of the various SWMUs being evaluated as part of Corrective Action. West Bear Creek and East Bear Creek extend through the site, southwest of the NAT and RAB. The Unnamed Tributary extends along the western boundary of the site. Cattail Creek and Bailey Creek form the southern property boundary with Bailey Creek extending north along the facility's eastern property boundary.

As described in **Section 2.1**, surface drainage generally flows to the south or east to one of a series of small channels which dissect the edge of the flat terrace formation at the site. The channels drain steeply towards Cattail Creek and Bailey Creek. The

confluence of the two creeks is located just south of the site. Bailey Creek continues to the northeast for approximately two miles until eventually emptying into the James River.

Based upon groundwater/surface water elevation data, Cattail and Bailey Creeks are the ultimate discharge points for groundwater from both the upper and lower aquifers beneath the facility. Based on this information, the "existing area of contaminated groundwater" is located entirely on the Facility site within the upper silty sand aquifer, or discharges into the onsite streams. The potential for vertical migration is limited by the pervasive marine clay layer, and the potential for lateral migration is limited by Bailey and Cattail Creeks.

3.0 RCRA FACILITY INVESTIGATIVE SUMMARY

The following sections summarize the work performed to implement the tasks indicated in the Facility's Facility Lead Corrective Action Agreement dated February 4, 2000.

3.1 Phase I Investigation

The Phase I Investigation, conducted in December 2001, included the evaluation of environmental samples from five (5) SWMUs:

- SWMU #8 and #29: Reten/Aqualon Basin (RAB);
- SWMU #14: Sludge Drying Beds (SDB); and
- SWMU #15: Vacuum Filter Sludge Pile (VFSP);
- SWMU #16: Solid Waste Incinerator (SWI); and
- SWMU #34: Teepee Incinerator (TPI).

Soil samples were collected from all of the aforementioned SWMUs, with the exception of the RAB (SWMU #8/#29) where only groundwater samples were collected. While a limited summary of the results was reported to the USEPA in February 2002, the formal *Phase I/II RFI Report* was submitted to the USEPA in September 2005. Based on analytical results and screening values present at the time, all five SWMUs were recommended for No Further Action (NFA). However, as indicated in the August 17, 2006 comment letter on the *Phase I/II RFI Report*, the USEPA did not support the NFA recommendations at the time and requested additional information or investigation for the units.

3.2 Phase II Investigation

The Phase II Investigation, conducted in November 2002, included the installation of nine (9) groundwater monitoring wells in order to evaluate groundwater quality downgradient of three (3) SWMUs:

- SWMU #3: Eastern Whitewater Lagoon (WWL) – monitoring wells WWL-2, WWL-3U and WWL-3L;
- SWMU #4: Western Whitewater Lagoon (WWL) – monitoring well WWL-1; and
- SWMU #5: Old Landfill and Landfill #156 (LF) – monitoring wells LF-1, LF-2, LF-3, LF-4 and LF-5.

Nine (9) groundwater monitoring wells and two (2) surface water measuring points were installed during the Phase II Investigation. Groundwater samples were collected from the newly installed monitoring wells and all three of the SWMUs were retained for further assessment/corrective action. Sampling activities and results were submitted to the USEPA in the *Phase I/II RFI Report* in September 2005.

The USEPA provided written comments on the *Phase I/II RFI Report* on August 17, 2006. In general, the USEPA agreed with the conclusions provided in the report. Specifically, the USEPA agreed that a Phase III Investigation should be conducted for the Phase II SWMUs (LF and Eastern and Western WWL) the NAT, and RAB groundwater. However, the USEPA did not agree with the recommendations for No Further Action at the other Phase I SWMUs [SDB (#14), VFSP (#15), SWI (#16) and TPI (#34)]. In addition, the USEPA requested that the Facility perform an initial evaluation of potential ecological habitat at the site. Specific work conducted as part of the Phase III Investigation is outlined below.

3.3 Phase III Investigation

The Phase III Investigation, performed in accordance with the USEPA-approved *Phase III SAP* (submitted and approved in April 2007), was conducted from May 2007 to June 2007 and included the following activities:

- Installation and sampling of four (4) groundwater monitoring wells downgradient of the SDB and VFSP (SWMUs #14 and #15, respectively);
- The collection and analysis of groundwater samples and geochemical data from the facility-wide monitoring well network (NAT-1, 2, 3, 4, RABMW-2, 3, 4, LF-1, 2, 3, 4, 5, WWL-1, 2, 3U, 3L, and MHB wells: MW-1, 2, 3, 4, 4U, 5, 5U, 6, 7U, 7L, 8U, 8L, 8D, 9, 10). Two wells (RABMW-1 and MW-5D) were unable to be sampled;

- The collection and analysis of soil, sludge, and/or sediment samples from the Eastern and Western WWL (SWMUs #3 and #4), NAT (SWMU #7), LF (SWMU #5), VFSP (SWMU #14) and SDB (SWMU #15) in support of further delineation efforts and/or source material evaluations;

- The collection and analysis of PCB confirmation sediment samples from various outfall, lagoon and creek locations previously sampled by the Virginia Department of Environmental Quality (VADEQ);

- Performance of an EE to identify potential on-site and adjacent habitats, define potential receptors, describe dominant habitat and vegetation types, evaluate site topography, and identify potential contaminant migration pathways; and

- The collection and analysis of surface water, soil and sediment samples from ecological habitat areas in support of a SLERA.

Results of the Phase III Investigation were reported to the USEPA in the *Phase III SISR* submitted in November 2007. The SDB (SWMU #14) and VFSP (SWMU #15) were recommended for No Further Action. However, due to the presence of TICs, coupled with the fact that the SDB and VFSP units represent aquatic habitat at the site, the SDB and VFSP were retained for further evaluation in the human health and ecological risk assessments for the site. The RAB (SWMU #8/#29), NAT (SWMU #7), the Eastern and Western WWL (SWMU #3 and #4, respectively), and the LF (SWMU #5) were retained for further investigation. The MHB groundwater was also retained for further assessment. The surface water bodies were recommended for inclusion in any future evaluation based on their proximity to various SWMUs being retained for further assessment.

3.4 Supplemental Phase III Sampling

The USEPA provided Hercules with technical comments on the November 2007 *Phase III SISR* in May 2008. In their comments, the USEPA requested the collection of additional samples from the SDB (SWMU #14) and VFSP (SWMU #15) to support the ecological risk assessment/evaluation as well as additional surface soil samples from the LF (SWMU #5). In March 2009, Hercules prepared and submitted the *Workplan for Additional Sample Collection* which outlined the proposed sampling. Specifically, the proposed sampling included the collection of surface water and macroinvertebrate samples from the SDB and VFSP units and additional surface soil samples from the LF in order to delineate the elevated lead concentration detected in sample OLF-4 collected during the 2007 Phase III field investigation. The USEPA subsequently approved the Workplan in March 2009 and Hercules conducted the field activities on March 17 and 18, 2009.

Information regarding the sample collection methodology and a summary of the results are described below. The soil and surface water samples were analyzed by TestAmerica Laboratories, Inc. of Savannah, Georgia (TestAmerica). The

TestAmerica analytical results were third-party validated by Environmental Data Quality, Inc. (EDQ) of Exton, Pennsylvania. The complete laboratory analytical reports are included as **Attachment D** and the data validation reports are included in **Attachment E**. The validated analytical results for the LF soil samples are summarized in **Table 3** and the results for the SDB and VFSP surface water samples are summarized in **Table 4**. The macroinvertebrate samples from the SDB and VFSP were submitted to Normandeau Associates, Inc. (Normandeau) of Stowe, Pennsylvania for analysis and the results are presented and summarized in the BERA (**Attachment B**).

As mentioned previously, these data have never been formally submitted to the USEPA but are summarized herein and have been incorporated into the risk assessments for the site.

3.4.1 Sampling Methodology

The following sections outline the sampling methodologies employed during the supplemental Phase III field investigation in March 2009. Samples were collected in accordance with the *Workplan for Additional Sample Collection* (dated March 17, 2009) and the April 2007 *Phase III SAP*.

3.4.1.1 Old Landfill and Landfill #156 (SWMU #5) Sample Collection

In order to laterally delineate the elevated lead detection at the Phase III landfill cover sample location OLF-4, on March 18, 2009, GES collected five (5) soil samples (LSS-1 through LSS-5) at locations approximately 10 feet in distance (to the north, south, east and west) from the original sample location. A second set of five (5) soil samples (LSS-6 through LSS-10) were collected from locations approximately 20 feet in distance from OLF-4 and were off-set by approximately 45 degrees from the original locations (i.e., northeast, northwest, southeast and southwest).

Each soil sample was containerized and submitted under chain-of-custody for the analyses of lead via EPA Method 6020A to TestAmerica. In accordance with the *Workplan for Additional Sample Collection*, the first set of samples collected (LSS-1 through LSS-5) were immediately tested for lead. The second set of samples collected (LSS-6 through LSS-10) were held by the laboratory pending the results of the first set of samples. Because the first set of soil samples exhibited lead detections generally consistent with the U.S. east coast background mean concentration of 20 milligrams per kilogram (mg/kg) (as referenced in USEPA Comment #10b on the November 2007 *Phase III SISR*), the second set of soil samples were discarded by the laboratory without testing.

During the field investigation, GES utilized a Global Positioning System (GPS) unit to accurately locate each of the sample locations. The sample locations are depicted on **Figure 5**. Only those sample locations from which actual environmental samples were analyzed are shown on the figure.

3.4.1.2 Sludge Drying Beds (SWMU #14) and Vacuum Filter Sludge Pile (SWMU #15) Sample Collection

As discussed during the October 22, 2008 meeting with USEPA, the USEPA considers the SDB and the VFSP units to represent wetland habitat, instead of "former industrial wastewater units." As such, the collection of surface water and sludge/sediment samples was necessary for evaluation in the Problem Formulation Step of the ecological risk assessment for the site.

To be consistent with the data collected for other potential habitats, the sludge/sediment samples were collected to evaluate the density and diversity of benthic macroinvertebrates as part of the ecological assessment work. GES personnel along with Dr. Bruce Fishman of RBR Consulting, Inc. (RBR) of Beaver Falls, Pennsylvania collected a total of four (4) benthic macroinvertebrate samples on March 17, 2009 and submitted the samples to Normandeau for analysis. One sample was collected from the VFSP and three samples were collected from the SDB.

Four (4) surface water samples (VFSP-SW-1, SDB-SW-1, SDB-SW-2, and SDB-SW-3) were also collected from the VFSP and SDB units via the swing sampling method and using dedicated glass bottleware. The samples were submitted to Test America for the analysis of Appendix IX Volatile Organic Compounds (VOCs) & TICs, Appendix IX Semivolatile Organic Compounds (SVOCs) & TICs, Alcohols & Glycols, Target Analyte List (TAL) Inorganics, and miscellaneous site-specific inorganic parameters. All samples were analyzed using methods outlined in the April 2007 *Phase III SAP*. One round of Quality Assurance/Quality Control (QA/QC) samples (i.e., trip blank, field duplicate, matrix spike, and matrix spike duplicate) were collected as well. During the field investigation, GES utilized a GPS unit to accurately locate each of the sample locations. The sample locations are depicted on **Figure 6.**

3.4.2 Sampling Results

The following sections outline the analytical results for the samples collected in March 2009. All Test America analytical data were third-party validated by EDQ. The complete laboratory analytical reports along with the data validation reports are included in **Attachments D and E**, respectively.

The landfill soil samples were primarily collected for comparison with the U.S. east coast background mean concentration of 20 mg/kg (USEPA Guidance for Developing Ecological Soil Screening Levels, Attachment 4-1, Review of Background Concentrations for Metals, OSWER 92857-55) per USEPA request. However, the results were also screened against the following Risk-Based Screening Levels (RBSLs):

- Industrial and Residential Soil Screening Levels (SSLs) derived from the Regional Screening Table dated June 2011; and

- Protection of Groundwater – MCL-Based (DAF20 and DAF1) SSLs derived from the Regional Screening Table dated June 2011.

The results for the surface water samples collected from the SDB and VFSP were screened against the following RBSLs:

- Virginia Water Quality Standards for Human Health (State Water Control Board, January 2011).

Where Virginia Water Quality Standards for Human Health were not available, the following RBSLs were used:

- Tapwater Regional Screening Levels (RSLs) derived from the Regional Screening Table dated June 2011; and

- USEPA Maximum Contaminant Levels (MCLs)

The screening levels for non-carcinogenic analytical parameters have been adjusted and reflect a Hazard Quotient of 0.1. The use of the Hazard Quotient for screening purposes compensates for the potential cumulative effects of the noncarcinogenic analytical parameters.

Certain constituents (target analytes and TICs) for which RBSLs were not available were assigned "surrogates", in other words, constituents with structural or toxicological similarities whose screening values could conservatively be used in the absence of a constituent-specific value. Selected surrogates were identified in Tables 3-1 and 3-6 of the HHRA (**Attachment A**) and the applicable screening values have been added to **Tables 3 and 4** as appropriate. Constituents for which surrogates were selected are flagged as such in the tables.

3.4.2.1 Old Landfill and Landfill #156 (SWMU #5) Results

The soil samples collected in order to delineate the elevated lead concentration (99,000 micrograms per kilogram (µg/kg)) detected at landfill cover sample OLF-4 from the 2007 Phase III Investigation yielded the following results as reported by the laboratory and shown in **Table 3**:

- LSS-1 – 17,000 µg/kg;

- LSS-2 – 18,000 µg/kg;

- LSS-3 – 22,000 µg/kg;

- LSS-4 – 45,000 µg/kg; and

- LSS-5 – 18,000 µg/kg.

All sample results were well below the concentration detected at OLF-4. Three of the results (LSS-1, LSS-2 and LSS-5) were also below the U.S. east coast background mean concentration of 20,000 µg/kg. None of the lead detections exceeded the June 2011 Industrial Soil Screening Level of 80,000 µg/kg. All but one concentration (LSS-4 – 45,000 µg/kg) were below the June 2011 Residential Soil Screening Level of 40,000 µg/kg. None of the detections exceeded the calculated MCL-Based DAF20 SSL of 280,000 µg/kg.

The results from the supplemental Landfill sampling were incorporated in the human health and ecological risk assessments for the site.

3.4.2.2 Sludge Drying Beds (SWMU #14) and Vacuum Filter Sludge Pile (SWMU #15) Results

Surface water samples collected from the VFSP and SDB units did not exhibit any VOC or alcohol/glycol exceedances of applicable RBSLs. The following SVOCs exhibited detections exceeding their respective January 2011 Virginia Water Quality Standards (WQS) for Human Health and Tapwater RSLs as shown in **Table 4**:

- Benzo(k)fluoranthene (0.58 J micrograms per liter, µg/L, in VFSP-SW-1 only);
- Benzo(a)pyrene (0.66 J µg/L and 0.96 J µg/L) – MCL exceedances as well;
- Dibenz(a,h)anthracene (ranging from 0.64 J µg/L to 2.6 J µg/L); and
- Indeno(1,2,3-cd)pyrene (1.3 J µg/L and 1.7 J µg/L).

The SVOC TIC 1,1,2,2-tetrachloroethane was also detected at concentrations (ranging from 8.9 TJN µg/L to 12 TJN µg/L) exceeding its Tapwater RSL.

The following inorganic compounds were detected at concentrations exceeding applicable Tapwater RSLs, unless otherwise noted. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance.

- Cobalt (1.2 µg/L and 2.2 µg/L);
- Iron (5,400 ug/L and 7,000 µg/L);
- Manganese (120 L µg/L and 350 L µg/L);
- Silver (3,900 µg/L and 4,000 µg/L);
- Thallium (3.0 µg/L and 5.3 µg/L) – MCL and Virginia WQS exceedances;
- Vanadium (34 µg/L to 58 µg/L); and

- Zinc (3,800 µg/L and 4,000 µg/L).

It should be noted that all of the cobalt, iron, manganese, vanadium and zinc concentrations detected in the surface water samples were less than their respective non-adjusted Tapwater RSLs.

All of the surface water results from the supplemental VFSP and SDB sampling were incorporated in the human health and ecological risk assessments for the site (see **Attachments A and B**).

3.5 2011 Site-Wide Groundwater Sampling Event and Geochemical Evaluation

As a means to develop a comprehensive spatial and temporal data set, a comprehensive groundwater sampling event was conducted in April and May 2011. The last groundwater sampling event was performed in 2007. In addition to Corrective Action parameters, select groundwater samples were also analyzed for geochemical parameters. Ten (10) wells were selected for geochemical analysis that are spatially (vertically and horizontally) distributed across the site and representative of each water-bearing unit (upper and lower aquifers) at the site.

In addition to the ten (10) groundwater samples collected for geochemical analysis, three (3) soil borings were installed at selected locations for the collection of geochemical/geotechnical samples. The soil and groundwater geochemical data were collected to evaluate the water/sediment interactions at the site.

3.5.1 Sampling Methodology

The following sections outline the sampling methodologies employed during the April/May 2011 site-wide groundwater sample collection event and geochemical evaluation. Samples were collected in accordance with the April 2007 *Phase III SAP*.

3.5.1.1 Site-Wide Groundwater Sampling Event

In accordance with the *Phase III SAP,* from April 25 to May 2, 2011, groundwater samples were collected from thirty-four (34) monitoring wells and analyzed for the following Corrective Action parameters: Appendix IX VOCs & TICs, Appendix IX SVOCs & TICs, site-specific alcohols, TAL metals, chlorides, nitrates, nitrites, sulfate, TKN and TOC. In addition, seven (7) site-specific, non-Appendix IX VOCs have been included as part of the VOC analyte list. Select wells were not sampled for SVOCs based on the lack of previous analytical detections in those wells (i.e., LF-2, NAT-1, NAT-4, RAB-MW2 through MW4, SDB-MW-1 through SDB-MW-3, VFSP-MW1, WWL-1 and WWL-2). Two (2) sets of QA/QC samples were collected. The 2011 sample collection matrix is presented as **Table 5**.

Ten (10) monitoring wells (e.g., MW-1 through 4, MW-4U, MW-5, MW-5U, MW-8U, MW-8D and SDB-MW-2) were also selected for the following biogeochemical

analyses: Appendix IX metals, additional inorganics (aluminum, iron, fluorine, bromine, dissolved silica, and phosphate), sulfide, alkalinity, major anions (bicarbonate and carbonate), ammonia and iron speciation (Fe^{+2}/Fe^{+3}). In addition to the aforementioned compounds, TOC and major cations (calcium, manganese, sodium, and potassium) sampled as part of the Corrective Action groundwater sampling were also included as part of the geochemical evaluation. Filtered samples were collected for total metals, major cations and TOC in order to evaluate the actual concentrations dissolved in site groundwater.

The groundwater sampling of all onsite wells was performed using low-flow sampling protocols in accordance with the approved *Phase III SAP*. Groundwater quality field parameters were measured during sampling as documented in **Table 6.** Due to insufficient volume of water from well RAB-MW2 and obstructions encountered and/or damage to wells MW-5D and MW-8L, groundwater samples were not collected from these wells.

3.5.1.2 Geochemical Soil Boring Installation

On April 25 and 26, 2011, three (3) soil borings were installed (i.e., GSB-1 through 3) at select locations as shown on **Figure 4.** Soil boring GSB-1 was installed adjacent to monitoring well MW-4 near the impacted zone, downgradient of the source; GSB-2 was installed adjacent to monitoring well MW-8 near the highly impacted, plume source zone; and GSB-3 was installed adjacent to monitoring well SDB-MW-2 as a background location, upgradient of the source.

The soil borings were installed by Parratt-Wolff, Inc. (Parratt-Wolff) of Hillsborough, North Carolina utilizing a geoprobe, direct-push rig. Two (2) samples were collected from each of the three (3) soil borings and analyzed for the following: Appendix IX metals, additional inorganics (fluorine, bromine, silicon and phosphate), TOC, grain-size (sieve & hydrometer) and total sulfur. One (1) sample from each boring was collected from the upper water-bearing unit and one (1) sample was collected from the lower water-bearing unit. Additional soil samples were collected from each of the three (3) soil boring locations for divalent cation sequential extraction. These samples were collected via direct-push macrocores and shipped on dry-ice to Applied Speciation and Consulting, LLC (Applied Speciation) of Bothell, Washington. Soil boring logs are provided in **Attachment F.**

Using the solid phase and dissolved phase geochemical data collected at the site, Hercules' technical advisor (Mr. Bill Deutsch) of Geochemistry Services, LLC developed a conceptual site geochemical model to provide data on the long-term capability of the aquifer system to assimilate and affect contaminant mobility. Mr. Deutsch's evaluation letter report is included in **Attachment G** and the results are summarized in **Section 9.0** as well.

3.5.2 Sampling Results

All groundwater analytical data collected for Corrective Action parameters were third-party validated by EDQ. The complete laboratory analytical reports along with the data validation reports are included in **Attachments H and I**, respectively. Geochemical groundwater and soil results are also provided in **Attachment H;** however, the geochemical results are not discussed further in this section. As indicated above, those results are discussed in the geochemical evaluation report included as **Attachment G** and in **Section 9.0** of this report.

The groundwater analytical results were screened against the following RBSLs:

- Tapwater RSLs derived from the Regional Screening Table dated June 2011; and

- USEPA MCLs.

Per USEPA request, the project screening level used for t-Butanol is the drinking water enforceable Provisional Action Goal of 12 ug/L for the State of California. The screening levels for non-carcinogenic analytical parameters have been adjusted to reflect a Hazard Quotient of 0.1. The use of the Hazard Quotient for screening purposes compensates for the potential cumulative effects of the noncarcinogenic analytical parameters. .

The 2011 groundwater samples were collected in order to provide a more recent data set for the concurrent geochemical evaluation conducted for the site. As such, these recent data were not incorporated into the HHRA or BERA (**Attachments A and B,** respectively) but rather, were used to evaluate groundwater trends over time. The risk calculations included in the HHRA and BERA were based on the 2007 comprehensive Phase III Investigation which included the collection of soil, sludge, sediment, surface water and groundwater samples.

Certain constituents (target analytes and TICs) for which RBSLs were not available were assigned "surrogates", in other words, constituents with structural or toxicological similarities whose screening values could conservatively be used in the absence of a constituent-specific value. Selected surrogates were identified in Tables 3-1 and 3-6 of the HHRA (**Attachment A**) and the applicable screening values have been added to **Tables 7 through 14** as appropriate. Constituents for which surrogates were selected are flagged as such in the tables.

In general, the results from the 2011 groundwater sampling event were similar in concentration to the groundwater concentrations previously detected during the 2007 Phase III Investigation at the site. The complete analytical results (detections and non-detects) for the 2011 sampling event are presented in **Table 7.** Detected concentrations are summarized in **Tables 8 through 14** and are outlined below. A discussion of the 2011 sampling results is included in **Section 8.0** along with an evaluation of groundwater trends at the site.

3.5.2.1 Eastern and Western Whitewater Lagoons (SWMUs #3 and #4) Results

The analytical detections identified in the groundwater samples collected from monitoring wells WWL-1, WWL-2, WWL-3U and WWL-3L are summarized in **Table 8**. No organic parameters were detected at concentrations that exceeded their respective MCL.

The following organic compounds were detected at concentrations exceeding their respective Tapwater RSL:

- Diethyl ether (810 µg/L and 8,100 µg/L in WWL-3U and WWL-3L, respectively);
- t-Butanol (ranging from 30 J µg/L to 330 µg/L); and
- 1,4-Dioxane (3.2 µg/L and 18 µg/L in WWL-3U and WWL-3L, respectively).

It should be noted that the diethyl ether concentration (810 ug/L) detected in WWL-3U is less than the non-adjusted Tapwater RSL of 7,300 ug/L. VOC and SVOC TICs results identified in the Eastern and Western Whitewater WWL groundwater samples are also presented in **Table 8**. Unknown TICs were not further identified or evaluated for this groundwater sampling event as these data were primarily collected to evaluate groundwater trends at the site and to support the geochemical evaluation described in **Section 9.0** and **Attachment G** (Hopewell Site Geochemistry Letter Report – Deutsch, 2011).

The following inorganic compound was detected above its respective MCL:

- Barium (2,100 µg/L in WWL-2 only).

The following inorganic compounds were detected above their respective Tapwater RSLs:

- Antimony (2.2 J µg/L in WWL-1 only);
- Arsenic (ranging from 1.8 J µg/L to 5 µg/L);
- Cobalt (ranging from 2.1 µg/L to 110 µg/L);
- Iron (ranging from 13,000 µg/L to 170,000 µg/L); and
- Manganese (ranging from 3,200 µg/L to 31,000 µg/L).

It should be noted that the all of the antimony and arsenic Tapwater RSL exceedances listed above are less than their respective MCLs of 6 ug/L and 10 ug/L.

The following inorganic compounds were detected in the samples collected from the WWL monitoring wells but do not have screening criteria:

- Calcium (ranging from 210,000 µg/L to 1,400,000 µg/L);
- Chloride (ranging from 600,000 µg/L to 5,000,000 µg/L);
- Kjeldahl, Nitrogen (ranging from 510 µg/L to 1,400 µg/L);
- Magnesium (ranging from 48,000 µg/L to 560,000 µg/L);
- Potassium (ranging from 1,100 µg/L to 7,900 µg/L);
- Sodium (ranging from170,000 µg/L to 790,000 µg/L);
- Sulfate (ranging from 63,000 µg/L to 440,000 µg/L); and
- TOC (ranging from 3,700 µg/L to 280,000 µg/L).

The inorganic compounds listed above without relevant RBSLs are commonly detected in groundwater and are considered environmentally insignificant.

In some instances, analyte results that were U-qualified (i.e., not detected) have a reporting limit or method detection limit that exceeds its respective screening criteria. For samples collected from the WWL monitoring wells, the results for 33 VOCs, 25 SVOCs and one (1) alcohol were U qualified but their method detection limits and/or reporting limits exceeded their respective Tapwater RSL or MCL. The samples for WWL-3L and WWL-3U were analyzed at dilutions for volatile organic compounds. The dilution analyses were performed because of the suspected presence of elevated levels of target compounds and/or interferences. Detection limits are elevated by the dilution factor for these samples for target compounds that were not detected. The U-qualified groundwater data results are summarized in **Table 7**.

Further assessment of the 2011 WWL groundwater results is provided in the groundwater trends evaluation in **Section 8.1**.

3.5.2.2 Old Landfill and Landfill #156 (SWMU #5) Results

The analytical detections identified in the groundwater samples collected from monitoring wells LF-1 through LF-5 are summarized in **Table 9**. No organic parameters were detected at concentrations that exceeded their respective MCLs.

The following organic compounds were detected at concentrations exceeding their respective Tapwater RSLs:

- 1,1-Dichloroethane (2.4 µg/L in LF-1 only);
- t-Butanol (ranging from 12 µg/L to 300 µg/L);
- 1,4-Dioxane (ranging from 0.83 J µg/L to 14 µg/L); and

- Methanol (2,600 µg/L in LF-2 only).

It should be noted that the detected methanol concentration in LF-2 is less than the non-adjusted Tapwater RSL of 18,000 ug/L. VOC and SVOC TICs results identified in the LF groundwater samples are also presented in **Table 9**. Unknown TICs were not further identified or evaluated for this groundwater sampling event as these data were primarily collected to evaluate groundwater trends at the site and to support the geochemical evaluation described in **Section 9.0** and **Attachment G** (Hopewell Site Geochemistry Letter Report – Deutsch, 2011).

The following inorganic compound was detected above its respective MCL:

- Cadmium (6.4 µg/L in LF-2 only).

The following inorganic compounds were detected above their respective Tapwater RSLs:

- Cobalt (12 µg/L in LF-3 only);
- Iron (ranging from 4,200 µg/L to 8,200 µg/L); and
- Manganese (ranging from 290 µg/L to 6,100 µg/L).

It should be noted that all of the detected iron concentrations are less than the non-adjusted Tapwater RSL for iron of 26,000 ug/L.

The following inorganic compounds were detected in the samples collected from the LF monitoring wells but do not have screening criteria:

- Calcium (ranging from 46,000 µg/L to 150,000 µg/L);
- Chloride (ranging from 8,100 µg/L to 180,000 µg/L);
- Kjeldahl, Nitrogen (ranging from 210 µg/L to 1,800 µg/L);
- Magnesium (ranging from 2,800 µg/L to 28,000 µg/L);
- Potassium (ranging from 4,000 µg/L to 8,200 µg/L);
- Sodium (ranging from 12,000 µg/L to 280,000 µg/L);
- Sulfate (ranging from 18,000 µg/L to 350,000 µg/L); and
- TOC (ranging from 600 J µg/L to 3,600 µg/L).

The inorganic compounds listed above without relevant RBSLs are commonly detected in groundwater and are considered environmentally insignificant.

In some instances, analyte results that were U-qualified (i.e., not detected) have a reporting limit or method detection limit that exceeds it respective screening criteria. For samples collected from the LF monitoring wells, the results for 12 VOCs, 24 SVOCs and one (1) alcohol were U qualified but their method detection limits and/or reporting limits exceeded their respective Tapwater RSL or MCL. The U-qualified groundwater data results are summarized in **Table 7**.

Further assessment of the 2011 LF groundwater results is provided in the groundwater trends evaluation in **Section 8.2**.

3.5.2.3 Natrosol Lagoon (SWMU #7) Results

The analytical detections identified in the groundwater samples collected from monitoring wells NAT-1 through NAT-4 are summarized in **Table 10**. In addition, a blind field duplicate sample was collected from monitoring well NAT-3. The following organic compound was detected at a concentration exceeding its respective MCL:

- TCE (28 µg/L in NAT-1 only).

The following organic compounds were detected at concentrations exceeding their respective Tapwater RSLs:

- t-Butanol (ranging from 370 µg/L to 94,000 µg/L);
- Tetrachloroethene (0.3 J µg/L and 1.3 µg/L in NAT-3 and its associated field duplicate sample, respectively);
- TCE (3.2 in NAT-2 only);
- 1,4-Dioxane (ranging from 1.5 J µg/L to 7.6 µg/L); and
- Methanol (4,400,000 L µg/L in NAT-2 only).

The tetrachloroethene exceedances in NAT-3 and the TCE exceedance in NAT-2 are below their respective MCLs of 5 µg/L. VOC and SVOC TICs results identified in the NAT groundwater samples are also presented in **Table 10**. Unknown TICs were not further identified or evaluated for this groundwater sampling event as these data were primarily collected to evaluate groundwater trends at the site and to support the geochemical evaluation described in **Section 9.0** and **Attachment G** (Hopewell Site Geochemistry Letter Report – Deutsch, 2011).

The sample collected from NAT-4 was field filtered using a 0.45 micron filter due to elevated turbidity (i.e., 68.20 NTU) and the sample was analyzed for total metals as well as dissolved metals. The dissolved metals results for NAT-4 reported three (3) Tapwater RSL exceedances. The total and dissolved metals detections are summarized in **Table 10.**

The following inorganic compounds were detected above their respective MCL:

- Arsenic (15 µg/L in unfiltered NAT-4 sample only); and
- Lead (34 µg/L in unfiltered NAT-4 sample only);
- Nitrate as N (13,000 µg/L in unfiltered NAT-1 sample only);
- Nitrite as N (4,300 µg/L in the field duplicate associated with NAT-3 only).

It should be noted that the filtered (dissolved) sample results for arsenic and lead in NAT-4 were 2.5 µg/L and 0.26 J µg/L, respectively. Both of these results are less than their respective MCL (arsenic) and Action Level (lead) of 10 ug/L and 15 ug/L.

The following inorganic compounds were detected above their respective Tapwater RSLs:

- Aluminum (44,000 µg/L in unfiltered NAT-4 sample only);
- Arsenic (ranging from 3.9 µg/L to 6.1 µg/L);
- Cobalt (ranging from 3.8 J µg/L to 41 J µg/L);
- Iron (ranging from 2,800 µg/L to 54,000 µg/L);
- Manganese (ranging from 160 µg/L to 2,300 µg/L); and
- Vanadium (130 µg/L in unfiltered NAT-4 sample only)

It should be noted that the filtered (dissolved) sample results for aluminum, cobalt and vanadium in NAT-4 were all less than their respective Tapwater RSLs. In addition, the arsenic Tapwater RSL exceedances listed above are all less than the MCL of 10 ug/L. The vanadium concentration detected in the unfiltered sample collected from NAT-4 was less than the non-adjusted Tapwater RSL of 180 ug/L as well.

The following inorganic compounds were detected in the samples collected from the NAT monitoring wells but do not have screening criteria:

- Calcium (ranging from 7,900 µg/L to 91,000 µg/L);
- Chloride (ranging from 8,700 µg/L to 250,000 µg/L);
- Kjeldahl, Nitrogen (ranging from 350 µg/L to 5,500 µg/L);
- Magnesium (ranging from 6,000 µg/L to 31,000 µg/L);
- Potassium (ranging from 1,100 µg/L to 3,900 µg/L);

- Sodium (120,000 µg/L to 1,200,000 µg/L);
- Sulfate (ranging from 51,000 µg/L to 340,000 µg/L); and
- TOC (ranging from 1,500 J µg/L to 73,000 µg/L).

The inorganic compounds listed above without relevant RBSLs are commonly detected in groundwater and are considered environmentally insignificant.

In some instances, analyte results that were U-qualified (i.e., not detected) have a reporting limit or method detection limit that exceeds it respective screening criteria. For samples collected from the NAT monitoring wells, the results for 12 VOCs, 24 SVOCs and one (1) alcohol were U qualified but their method detection limits and/or reporting limits exceeded their respective Tapwater RSL or MCL. The U-qualified groundwater data results are summarized in **Table 7**.

Further assessment of the 2011 NAT groundwater results is provided in the groundwater trends evaluation in **Section 8.3**.

3.5.2.4 Reten/Aqualon Basin (SWMU #8 and #29) Results

The analytical detections identified in the groundwater samples collected from monitoring wells RAB-MW2 through RAB-MW4 are summarized in **Table 11**. No organic parameters were detected at concentrations that exceeded their respective MCL.

The following organic compound was detected at a concentration exceeding its respective Tapwater RSL:

- t-Butanol (160 µg/L and 270 µg/L in RAB-MW2 and RAB-MW3, respectively).

VOC TIC results identified in the RAB groundwater samples are also presented in **Table 11**. Unknown TICs were not further identified or evaluated for this groundwater sampling event as these data were primarily collected to evaluate groundwater trends at the site and to support the geochemical evaluation described in **Section 9.0** and **Attachment G** (Hopewell Site Geochemistry Letter Report – Deutsch, 2011).

None of the RAB wells were sampled for SVOCs in 2011 due to a lack of historical SVOC detections in any of the wells.

No inorganic compounds were detected at concentrations above their respective MCL. The following inorganic compounds were detected above their respective Tapwater RSLs:

- Aluminum (8,000 µg/L in RAB-MW3 only);

- Arsenic (ranging from 1.3 J µg/L to 6.6 µg/L);
- Cobalt (ranging from 2.5 J µg/L to120 J µg/L);
- Iron (ranging from 3,000 µg/L to 130,000 µg/L); and
- Manganese (ranging from 420 µg/L to 12,000 µg/L).

It should be noted that all of the arsenic exceedances are below the MCL of 10 µg/L. In addition, the detected aluminum concentration in RAB-MW3 is less than the non-adjusted Tapwater RSL of 37,000 ug/L.

The following inorganic compounds were detected in the samples collected from the RAB monitoring wells but do not have screening criteria:

- Calcium (ranging from 12,000 µg/L to 250,000 µg/L);
- Chloride (ranging from 59,000 µg/L to 530,000 µg/L);
- Kjeldahl, Nitrogen (ranging from 250 µg/L to 3,900 µg/L);
- Magnesium (ranging from 25,000 µg/L to 220,000 µg/L);
- Potassium (ranging from 1,100 µg/L to 5,100 µg/L);
- Sodium (ranging from 58,000 µg/L to 490,000 µg/L);
- Sulfate (ranging from 21,000 µg/L to 1,600,000 µg/L); and
- TOC (ranging from 2,600 J µg/L to 28,000 µg/L).

The inorganic compounds listed above without relevant RBSLs are commonly detected in groundwater and are considered environmentally insignificant.

In some instances, analyte results that were U-qualified (i.e., not detected) have a reporting limit or method detection limit that exceeds it respective screening criteria. For samples collected from the RAB monitoring wells, the results for 12 VOCs and one (1) alcohol were U qualified but their method detection limits and/or reporting limits exceeded their respective Tapwater RSL or MCL. The U-qualified groundwater data results are summarized in **Table 7**.

Further assessment of the 2011 RAB groundwater results is provided in the groundwater trends evaluation in **Section 8.4**.

3.5.2.5 Sludge Drying Beds (SWMU #14) Results

The analytical detections identified in the groundwater samples collected from monitoring wells SDB-MW-1 through SDB-MW-3 are summarized in **Table 12**. No organic parameters were detected at concentrations that exceeded their respective MCL.

The following organic compound was detected at a concentration exceeding its respective Tapwater RSL:

- t-Butanol (790 µg/L in SDB-MW-3 only).

VOC TICs were not identified in the Sludge Drying Bed groundwater samples.

None of the SDB wells were sampled for SVOCs due to a lack of SVOC detections previously in any of the wells.

The following inorganic compound was detected at a concentration above its respective MCL:

- Chromium (160 µg/L in SDB-MW-1 only).

The following inorganic compounds were detected above their respective Tapwater RSLs:

- Aluminum (13,000 µg/L in SDB-MW-1 only);
- Arsenic (7.7 µg/L in SDB-MW-1 only);
- Cobalt (ranging from 5.8 µg/L to 9 µg/L);
- Iron (230,000 µg/L in SDB-MW-1 only);
- Manganese (ranging from 1,500 µg/L to 2,300 µg/L);
- Nickel (95 µg/L in SDB-MW-1 only); and
- Vanadium (27 µg/L in SDB-MW-1 only).

It should be noted that the arsenic exceedance detected in SDB-MW-1 is less than the MCL of 10 µg/L. In addition, all of the detected aluminum, cobalt, nickel and vanadium concentrations are less than their respective non-adjusted Tapwater RSLs.

The following inorganic compounds were detected in the samples collected from the SDB monitoring wells but do not have screening criteria:

- Calcium (ranging from 82,000 µg/L to 490,000 µg/L);

- Chloride (ranging from 45,000 µg/L to 280,000 µg/L);
- Kjeldahl, Nitrogen (ranging from 390 µg/L to 14,000 µg/L);
- Magnesium (ranging from 22,000 µg/L to 100,000 µg/L);
- Potassium (ranging from 1,800 µg/L to 15,000 µg/L);
- Sodium (ranging from 77,000 µg/L to 300,000 µg/L);
- Sulfate (1,100,000 µg/L and 1,200,000 µg/L in SDB-MW-3 and SDB-MW-2, respectively); and
- TOC (ranging from 5,600 µg/L to 51,000 µg/L).

The inorganic compounds listed above without relevant RBSLs are commonly detected in groundwater and are considered environmentally insignificant.

In some instances, analyte results that were U-qualified (i.e., not detected) have a reporting limit or method detection limit that exceeds it respective screening criteria. For samples collected from the SDB monitoring wells, the results for 12 VOCs and one (1) alcohol were U qualified but their method detection limits and/or reporting limits exceeded their respective Tapwater RSL or MCL. The U-qualified groundwater data results are summarized in **Table 7**.

Further assessment of the 2011 SDB groundwater results is provided in the groundwater trends evaluation in **Section 8.5**.

3.5.2.6 Vacuum Filter Sludge Pile (SWMU #15) Results

The analytical detections identified in the groundwater samples collected from monitoring well VFSP-MW-1 are summarized in **Table 13**. No organic parameters were detected at concentrations that exceeded their respective MCL or Tapwater RSL. VOC TICs were not identified in the VFSP groundwater samples. The VFSP well was not sampled in 2011 due to a lack of any SVOC detections in 2007.

The following inorganic compounds were detected above their respective Tapwater RSLs:

- Cobalt (2.2 µg/L);
- Iron (3,900 µg/L); and
- Manganese (760 µg/L).

It should be noted that all of the detected cobalt, iron and manganese concentrations are less than their respective non-adjusted Tapwater RSLs.

The following inorganic compounds were detected in the samples collected from the VFSP monitoring well but do not have screening criteria:

- Calcium (86,000 µg/L);
- Chloride (51,000 µg/L);
- Kjeldahl, Nitrogen (370 µg/L);
- Magnesium (8,300 µg/L);
- Potassium (6,600 µg/L);
- Sodium (35,000 µg/L);
- Sulfate (130,000 µg/L); and
- TOC (680 J µg/L).

The inorganic compounds listed above without relevant RBSLs are commonly detected in groundwater and are considered environmentally insignificant.

In some instances, analyte results that were U-qualified (i.e., not detected) have a reporting limit or method detection limit that exceeds it respective screening criteria. For samples collected from the VFSP monitoring well, the results for 12 VOCs and one (1) alcohol were U qualified but their method detection limits and/or reporting limits exceeded their respective Tapwater RSL or MCL. The U-qualified groundwater data results are summarized in **Table 7**.

Further assessment of the 2011 VFSP groundwater results is provided in the groundwater trends evaluation in **Section 8.6**.

3.5.2.7 Main Holding Basin Wells Results

The analytical detections identified in the groundwater samples collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-4U, MW-5, MW-5U, MW-6, MW-7L, MW-7U, MW-8D, MW-8U, MW-9 and MW-10 are summarized in **Table 14**. In addition, a blind field duplicate sample was collected from monitoring well MW-5. The following organic compound was detected at a concentration exceeding its respective MCL:

- Tetrachloroethene (13 µg/L in MW-10 only).

The following organic compounds were detected at concentrations exceeding their respective Tapwater RSLs:

- 1,1,2,2-Tetrachloroethane (0.5 J µg/L in MW-10 only);

- 1,2-Dichloroethane (0.21 J µg/L in MW-10 only);
- Chloroform (0.94 J µg/L in MW-10 only);
- Diethyl ether (ranging from 1,300 µg/L to 10,000 µg/L);
- t-Butanol (ranging from 130 J µg/L to 3,400 µg/L);
- TCE (2.1 µg/L in MW-10 only);
- 1,4-Dichlorobenzene (0.67 B µg/L in MW-5U only);
- 1,4-Dioxane (ranging from 1.2 J µg/L to 24 µg/L);
- Bis(2-chloroethyl)ether (0.22 J µg/L in MW-2 only);
- Naphthalene (0.18 J µg/L in MW-7U only); and
- Methanol (ranging from 2,200 µg/L to 160,000 µg/L).

It should be noted that all of the detected 1,2-dichloroethane, chloroform, TCE and 1,4-dichlorobenzene concentrations are less than their respective MCLs.

VOC and SVOC TICs results identified in the MHB groundwater samples are also presented in **Table 14**. Unknown TICs were not further identified or evaluated for this groundwater sampling event as these data were primarily collected to evaluate groundwater trends at the site and to support the geochemical evaluation described in **Section 9.0** and **Attachment G** (Hopewell Site Geochemistry Letter Report – Deutsch, 2011).

The following inorganic compounds were detected above their respective MCL:

- Arsenic (15 µg/L in MW-8U only); and
- Cadmium (11 µg/L in MW-7U only).

The following inorganic compounds were detected above their respective Tapwater RSLs:

- Aluminum (4,700 µg/L in MW-8U only);
- Arsenic (ranging from 1.4 J µg/L to 5.7 µg/L);
- Barium (ranging from 760 µg/L to 810 µg/L);
- Cadmium (2.9 µg/L and 4.5 µg/L in MW-8D and MW-10, respectively);
- Cobalt (ranging from 1.1 µg/L to 440 J µg/L);

- Iron (ranging from 7,900 µg/L to 150,000 µg/L);
- Manganese (ranging from 250 µg/L to 48,000 µg/L);
- Mercury (0.58 J µg/L and 1.6 µg/L in MW-4U and MW-7U, respectively);
- Nickel (73 µg/L and 130 µg/L in MW-10 and MW-7U, respectively); and
- Vanadium (240 µg/L in MW-5U only).

It should be noted that all of the arsenic, barium, cadmium and mercury exceedances listed above are less than their respective MCLs. In addition, all of the detected aluminum and nickel concentrations are less than their respective non-adjusted Tapwater RSLs.

The following inorganic compounds were detected in the samples collected from the MHB monitoring wells but do not have screening criteria:

- Calcium (ranging from 38,000 µg/L to 560,000 µg/L);
- Chloride (ranging from 3,600 µg/L to 2,100,000 µg/L);
- Kjeldahl, Nitrogen (ranging from 220 µg/L to 19,000 µg/L);
- Magnesium (ranging from 3,300 µg/L to 320,000 µg/L);
- Potassium (ranging from 3,800 µg/L to 24,000 µg/L);
- Sodium (ranging from 14,000 µg/L to 1,900,000 µg/L);
- Sulfate (ranging from 4,800 J µg/L to 710,000 µg/L); and
- TOC (ranging from 610 J µg/L to 36,000 µg/L).

The inorganic compounds listed above without relevant RBSLs are commonly detected in groundwater and are considered environmentally insignificant.

In some instances, analyte results that were U-qualified (i.e., not detected) have a reporting limit or method detection limit that exceeds it respective screening criteria. For samples collected from the MHB monitoring wells, the results for 12 VOCs, 24 SVOCs and one (1) alcohol were U qualified but their method detection limits and/or reporting limits exceeded their respective Tapwater RSL or MCL. The U-qualified groundwater data results are summarized in **Table 7**.

Further assessment of the 2011 MHB groundwater results is provided in the groundwater trends evaluation in **Section 8.7**.

4.0 RETAINED SWMU / AOC CHARACTERIZATION

The following sections present additional background information regarding the seven (7) SWMUs and the two (2) areas of interest (MHB and surface water bodies) currently retained for further investigation/assessment at the Facility. The locations of these SWMUs and areas are shown on **Figure 2**.

4.1 Eastern and Western Whitewater Lagoons – SWMUs #3 and #4

4.1.1 SWMU Background

The Eastern and Western WWL consist of two unlined surface impoundments (see **Figure 2**). The RFA reported that the lagoons were constructed during the early to mid-1950s. However, the lagoons do not show on plant topographical maps until 1962. The two lagoons lie adjacent to one another, and are joined by a pipe at their southern ends. The lagoons were used primarily for disposal of whitewater, a waste stream from the Chemical Cotton Process. Starting in approximately 1976, the Eastern WWL also received waste-activated sludge from the Facility's Bioplant.

4.1.2 Summary of Previous Field Investigations

The four (4) monitoring wells associated with the WWL were installed in November 2002 as part of the Phase II Investigation. Two monitoring wells (WWL-1 and WWL-2) were installed immediately downgradient of each of the lagoons, and one nested pair of wells (WWL-3U and WWL-3L) was installed along the eastern side of the Eastern WWL to evaluate the potential influence from the adjacent MHB. Groundwater samples were collected from the four monitoring wells as part of the Phase II Investigation. Results were reported in the September 2005 *Phase I/II RFI Report*. As mentioned in Section 4.1.4 of the *Phase I/II RFI Report*, the Eastern and Western WWLs were recommended for further assessment.

During the 2007 Phase III Investigation, the well network associated with both lagoons was re-evaluated in accordance with the *Phase III SAP*. In addition, the USEPA requested that an ecological reconnaissance be conducted in order to determine if the lagoons provide aquatic habitat. In accordance with the *Phase III SAP*, a SLERA was conducted along with the collection of surface water and aquatic sludge/sediment samples. All results were presented in Section 4.1.5.4 of the *Phase III SISR*. As previously documented in this report, the WWL wells were sampled again in 2011 as well in order to establish groundwater trends and support the geochemical evaluation at the site. The observed groundwater trends are discussed in **Section 8.0**.

The Eastern and Western WWL were further evaluated in the HHRA and BERA, **Attachments A and B**, respectively.

4.2 Old Landfill and Landfill #156 (LF) – SWMU #5

4.2.1 SWMU Background

Landfill #156 was a permitted solid waste landfill which was operational from 1972 to 1988. The Old Landfill is the adjacent area to the east which was used for waste disposal dating back to the 1930's. The location of SWMU #5 is shown on **Figure 2**. The VADEQ agreed in 1989 that Landfill #156 had been properly closed.

4.2.2 Summary of Previous Field Investigations

The five (5) LF monitoring wells (LF-1 through LF-5) were installed in November 2002 as part of the Phase II Investigation. Four of the monitoring wells (LF-1, 2, 3 and 4) were installed immediately downgradient of the waste-containing areas. Groundwater samples were collected from all wells and the results were reported in the September 2005 *Phase I/II RFI Report*.

As requested by USEPA, a landfill cover evaluation was conducted during the 2007 Phase III Investigation. 167 hand-augered borings were installed across the landfill area on a 50-ft x 50-ft surveyed grid in order to identify areas having a minimum of 2 feet of soil cover. Upon completion of the soil cover evaluation, eight (8) soil samples (OLF-1 through OLF-8) were systematically selected and collected from locations identified as having a minimum of two feet of soil cover. In accordance with the *Phase III SAP,* groundwater samples were also collected from the five monitoring wells during the Phase III Investigation. Soil and groundwater results were detailed in Section 4.1.6.4 of the Phase III SISR. As previously documented in this report, supplemental sampling of the LF soil cover was conducted in 2009 to delineate detected lead concentrations around one Phase III sample location (OLF-4). In addition, the LF wells were sampled again in 2011 as well in order to establish groundwater trends and support the geochemical evaluation at the site. The observed groundwater trends are discussed in **Section 8.0**.

While there does not appear to be any immediate risk to human health and the environment resulting from the cover evaluation, further evaluation was deemed necessary following the 2007 Phase III Investigation to evaluate if additional engineering controls (i.e., additional cover, fencing, etc.) are required to provide the long-term controls necessary to maintain the area as a closed industrial landfill. In addition, the detections of organic compounds in the groundwater and adjacent surface water warranted further evaluation to determine the appropriate assessment/corrective measures.

The data from the Old Landfill and Landfill #156 were incorporated into the HHRA and BERA, which are included in **Attachments A and B**, respectively.

4.3 Natrosol Lagoon (NAT) – SWMU #7

4.3.1 SWMU Background

The NAT (shown on **Figure 2**) was an unlined impoundment that received cellulose derivatives manufacturing waste from 1962 through 1988. The lagoon was closed under the VADEQ's Virginia Pollutant Discharge Elimination System (VPDES) program and a Closure Report was submitted to the VADEQ in May 1995 documenting closure of the lagoon by dredging, excavation, and off-site disposal of sludge as a non-hazardous solid waste. The lagoon was covered with a layer of top soil and vegetated to stabilize the soil. It was allowed to fill with surface and groundwater following removal of the residual sludge.

4.3.2 Summary of Previous Field Investigations

The groundwater quality downgradient of the NAT was previously investigated during closure activities under the VPDES permit in the late 1990s. During the 2007 Phase III Investigation, the well network associated with the NAT (NAT-1, 2, 3 and 4) was re-evaluated in order to obtain a more current, comprehensive data set. In addition, a SLERA was conducted along with the collection of surface water and aquatic sludge/sediment samples. No appreciable thickness of sludge was observed. The findings of the various sampling activities and the SLERA were discussed in Section 4.1.4.4 and Attachment E, respectively, of the *Phase III SISR*. As previously documented in this report, the NAT wells were recently re-sampled in 2011 as well in order to establish groundwater trends and support the geochemical evaluation at the site. The observed groundwater trends are discussed in **Section 8.0**.

The NAT was further evaluated in the HHRA and BERA, **Attachments A and B**, respectively.

4.4 Reten/Aqualon Basin (RAB) – SWMU #8 and #29

4.4.1 SWMU Background

The RAB was originally constructed in 1976 to treat nonhazardous wastewaters from acrylamide polymer manufacturing and absorbent fiber areas. The original basin was constructed with gunnite wall and an asphalt bottom. In early 1989, the RAB was enlarged (deeper and laterally), and was fitted with a 40-mil plastic liner. The expanded unit (called the Anoxic Basin) was used for treatment of all neutralized wastewater from June 1989 until late December 1989, when it was removed from service due to liner tears in the north end. Primary constituents of the handled wastewaters included ethylene glycol, propylene glycol, sodium nitrate, sodium acetate, sodium chloride, sodium glycolate, cellulose derivatives, and a variety of organic diluents.

4.4.2 Summary of Previous Field Investigations

The four (4) RAB monitoring wells (RABMW-1, 2, 3, and 4) were installed in early 1990 around the perimeter of the basin to assist with the determination of the cause of the liner failure. Groundwater sampling for the RAB-wells was conducted in December 2001 in accordance with the October 2001 *Facility Lead Corrective Action Agreement Workplan* and the sampling results were documented in the September 2005 *Phase I/II RFI Report*. As part of the 2002 *Hydrogeologic Evaluation*, a surface water monitoring point was installed in the middle of the RAB to evaluate if the water elevation in the basin was similar to the adjacent groundwater elevation. Based on the data derived from the field collection efforts, it was concluded that groundwater discharges to the stream to the south of the RAB and is influenced by the water in the basin.

As part of the 2007 Phase III Investigation, all RAB wells (with the exception of RABMW-1) were re-sampled and analyzed for the same constituents as during the Phase I Investigation. The analytical results were presented in the November 2007 *Phase III SISR*. As previously documented in this report, the RAB wells were sampled again in 2011 as well in order to establish groundwater trends and support the geochemical evaluation at the site. The observed groundwater trends are discussed in **Section 8.0**. While the RAB is no longer used for the management of wastewater, historical operational issues (torn liner) could have resulted in the observed groundwater impacts.

The RAB was further evaluated in the HHRA and BERA, **Attachments A and B**, respectively.

4.5 Sludge Drying Beds (SDB) – SWMU #14

4.5.1 SWMU Background

The SDBs consisted of three unlined rectangular beds probably constructed in late 1970 to replace the vacuum filter press. Sludge from the bioplant was pumped to the beds to dry, and was then periodically removed and landfilled as a non-hazardous waste. In approximately 1976, the Facility began pumping the sludge to the Eastern WWL (SWMU #3), and ceased use of the SDBs.

4.5.2 Summary of Previous Field Investigations

During an April 2000 field investigation, the SDB was investigated with a core sampler to identify the presence of any residual sludge materials. No visual evidence of sludge was identified in any of the three beds.

During the Phase I Investigation (December 2001), nine (9) soil samples were collected from the upper six inches of the ground surface of the beds. No residual sludge was identified during any of the sampling activities. Results of the Phase I

sampling were formally presented to the USEPA in the September 2005 *Phase I/II RFI Report*. Although no detections of alcohols/glycols were identified in the *Phase I/II RFI Report*, the analytical testing under method 8015B was performed out of hold time. Consequently, Hercules agreed to resample the previous locations in order to re-analyze the sludge samples for the alcohols/glycols to confirm the non-detections.

The Phase III Investigation included the re-sampling of the previous Phase I sludge sample locations as well as the installation of the three (3) SDB monitoring wells (SDB-MW-1, 2 and 3) in order to assess water quality downgradient of the unit. A SLERA was also conducted for the unit (see Attachment E of the *Phase III SISR*). Results for all previous investigations performed on the SDBs are presented in Section 4.1.2.4 of the *Phase III SISR*. As previously documented in this report, supplemental sampling was conducted at the SDBs in 2009 in support of the ecological risk assessment at the site. In addition, the SDB wells were sampled again in 2011 as well in order to establish groundwater trends and support the geochemical evaluation at the site. The observed groundwater trends are discussed in **Section 8.0**.

Based on the data collected during the Phase I and Phase III Investigations, the SDB was recommended for No Further Action in the *Phase III SISR*. The analytical results of the soil and groundwater samples showed that the in-place material does not contain constituents that warrant additional investigative or remedial activities. However, due to the presence of TICs and the fact that the SDB represents aquatic habitat at the site, the SDBs were retained and the potential environmental risks were evaluated in the HHRA (**Attachment A**) and BERA (**Attachment B**).

4.6 Vacuum Filter Sludge Pile (VFSP) - SWMU #15

4.6.1 SWMU Background

The VFSP was a triangular-shaped surface impoundment used for temporary storage of sludge generated by a vacuum filter press during the 1960's and 1970's. The sludge was transported to the VFSP via conveyor belt, and the resulting filtrate was piped to the Facility's Aeration Basin for treatment. The solid cake sludge in the VFSP was then periodically removed and landfilled as a non-hazardous waste.

4.6.2 Summary of Previous Field Investigations

As part of the Phase I RFI activities (December 2001), the VSFP was investigated through the collection of nine (9) randomly selected sludge locations across the unit from the upper six inches of accumulated sludge. Results of the Phase I sampling were formally presented to the USEPA in the September 2005 *Phase I/II RFI Report*. Although no detections of alcohols/glycols were identified in the *Phase I/II RFI Report*, the analytical testing under method 8015B was performed out of hold time. Consequently, Hercules agreed to resample the previous locations in order to re-analyze the sludge samples for the alcohols/glycols to confirm the non-detections. In addition, due to the elevated SVOC TIC concentrations and the fact that the

individual chemicals comprising these TICs were not identified, the USEPA requested a follow-up investigation following the submission of the *Phase I/II RFI Report*.

The Phase III Investigation included the re-sampling of the previous Phase I sludge sample locations as well as the installation and sampling of a monitoring well (VFSP-MW-1) in order to assess water quality downgradient of the SWMU. A SLERA was also conducted for the unit and the findings were detailed in Attachment E of the *Phase III SISR*. As previously documented in this report, supplemental sampling at the VFSP was conducted in 2009 in support of the ecological risk assessment at the site. In addition, the VFSP well was sampled again in 2011 as well in order to establish groundwater trends and support the geochemical evaluation at the site. The observed groundwater trends are discussed in **Section 8.0**.

Based on the lack of inorganic/organic compounds observed in both the sludge (i.e., source material) and the underlying groundwater, the VFSP was recommended for No Further Action in the *Phase III SISR*. However, due to the presence of TICs and the fact that the VFSP represents aquatic habitat at the site, the VFSP was retained for further evaluation in the human health and ecological risk assessments for the site.

4.7 Main Holding Basin (MHB) Wells

4.7.1 SWMU Background

The MHB was a five-acre, unlined surface impoundment, constructed in 1962 for wastewater pretreatment. The MHB had a maximum capacity of 22.5 million gallons. During operation, process waste streams entered the west end of the basin where they received anaerobic treatment and were subsequently discharged. Of the approximately 6 to 8 million gallons per day (mgd) discharged, approximately 2.4 mgd were diverted to an activated sludge pretreatment system for further organic reduction. The effluent from this biological pretreatment system then combined with the remaining 3.6 to 5.6 mgd from the MHB and was conveyed to the Hopewell Regional Wastewater Treatment Facility (HRWTF). In 1989, the MHB was removed from service and free water was removed. Sludge and soils removal was completed and, in February 1993, Hercules received a Certificate of Satisfactory Completion from the VADEQ Voluntary Remediation Program (VRP).

4.7.2 Summary of Previous Field Investigations

The MHB received combined neutralized nonhazardous wastewater from plant-wide operations via the Neutralization Basin. In 1980, Hercules filed for a Part A permit, believing its wastewaters might be "delistable" wastes. During 1981–1985, delisting petitions and supporting documentation were presented to the USEPA. In 1985, USEPA determined the wastes had not met listing criteria and petition was not needed, and VADEQ subsequently allowed termination of the Part A permit (interim status). In May 1986, a sampling event (done while the Neutralization Basin acid

flow was shut off for safety reasons) indicated the MHB influent to be ≥ 12.5 pH. This ultimately became a basis for a February 9, 1988, enforcement order to close the MHB as a hazardous waste unit. Hercules questioned the status of the unit asserting the pH analysis was not correctly done and the sampling was not representative of MHB influent. In October 1993, VADEQ determined that the MHB had not received a hazardous waste, and that Hercules had satisfied any obligations under the enforcement order, and the enforcement order terminated. However, groundwater assessment (1991-1993) had determined a release to groundwater, so VADEQ directed that groundwater work should continue under the Virginia Voluntary Remediation Program (VVRP).

As indicated in the RCRA Facility Assessment (RFA), the pathways for release prior to 1990 included air due to volatilization, and to soil due to wastewater and sludge contact with the unlined bottom and side surfaces of the Basin. In 1989, the MHB was closed and sludge and soil removed.

The RFA indicated no further action pending proper closure of the MHB. VADEQ concurred with Hercules clean soils certification in 1993. Hercules completed groundwater testing under the VVRP, demonstrating that the MHB was not a source of contamination; however, shallow groundwater in the MHB vicinity averaged several parts per million (ppm) of diethyl ether. VADEQ concurred that routine VPDES permit toxicity testing at the downgradient permitted Outfall (006) indicated no adverse impact on surface water from the groundwater. Because the USEPA Region 3 RBC tables indicated 1.2 milligrams per liter (mg/L) maximum ether concentration for tap water, VADEQ advised Hercules to file a deed restriction for the area as a final requirement to receive a Certification of Satisfactory Completion of Remediation (Certification). This was completed and the Certification was issued on November 22, 1999.

As part of the 2007 Phase III Investigation, groundwater samples were collected from the following MHB wells: MW-1, 2, 3, 4, 4U, 5, 5U, 6, 7, 7L, 8U, 8L, 8D, 9, and 10. The analytical results were presented and discussed in detail in the *Phase III SISR*. As previously documented in this report, the MHB wells were sampled again in 2011 as well in order to establish groundwater trends and support the geochemical evaluation at the site. The observed groundwater trends are discussed in **Section 8.0**. While the "source" material (i.e., wastewater and sludge) has long been removed, residual groundwater impacts remain. As such, the MHB groundwater was carried forward and evaluated in the HHRA and BERA, **Attachments A and B**, respectively.

4.8 Surface Water Bodies

As part of the 2007 Phase III Investigation, surface water and sediment samples were collected from the various surface water bodies (Cattail Creek, Bailey Creek, East Bear Creek, West Bear Creek, and Unnamed Tributary) situated adjacent to and downgradient of the various SWMUs being evaluated as part of Corrective Action. The analytical results were presented and discussed in detail in Section 4.1.8 of the *Phase III SISR*. Groundwater and surface water elevation data collected throughout

the various phases of assessment suggest that the shallow and deep groundwater discharges to the various streams that bisect the site.

The initial set of surface water and sediment data collected as part of the Phase III Investigation exhibited constituents which were considered to be site-related. Generally speaking, the spatial distribution of the detections related well to the presence of the same constituents measured in groundwater, soil, or sludge at adjacent SWMUs.

Because various SWMUs are either impoundments themselves or are adjacent to an on-site surface water body, the sediment and surface water data were incorporated and evaluated in the HHRA (**Attachment A**) and BERA (**Attachment B**).

5.0 POTENTIAL RECEPTORS

As previously stated, the remaining eight (8) SWMUs and areas of interest (i.e., MHB groundwater and surface water bodies) were carried forward into the sitewide human health and ecological risk assessments for the site. As part of the risk assessment process, potential receptors must be identified. Potential receptor identification involves describing the human populations and ecosystems that are susceptible to contaminate exposure from the facility. This receptor identification then allows for the evaluation of the potential exposure pathways.

For the Hopewell facility, both potential human and ecological receptors exist. A summary of the potential receptors included in the HHRA and BERA (**Attachments A and B**, respectively) is presented below.

5.1 Human Receptors

As an active facility, potential human receptors were identified based on the assumption that current and future land use is non-residential. Additional information regarding the Facility's industrial land use designation was included in Section 2.3 of the USEPA-approved November 2007 *Phase III SISR*.

In addition, land use restrictions will be implemented for the site that will prohibit future residential use. These land use restrictions will also prohibit the use of groundwater for any purpose. Recreational use of the offsite surface water bodies (Bailey Creek and Cattail Creek) is possible. As outlined in Section 4.2 of the HHRA (**Attachment A**), the following potential receptors were evaluated for the site:

- Current/Future Onsite Outdoor Industrial Worker;
- Current/Future Onsite Indoor Industrial Worker;
- Current/Future Onsite Construction Worker;

- Current/Future Onsite Youth Trespasser;
- Current/Future Offsite Recreational Adult; and
- Current/Future Offsite Recreational Youth.

Receptors are evaluated based on the media (i.e., surface water vs. soil) they would likely come in contact with and the frequency of site visits (i.e., employee vs. trespasser). For example, an outdoor worker is evaluated for direct exposure to surface soil and onsite standing surface water whereas a temporary construction worker may be evaluated for direct exposure to surface soil as well as shallow groundwater. Offsite streams were also taken into account as potentially complete exposure pathways for the recreational receptors' swimming. Specifically, the receptors identified above were evaluated for the following exposure routes outlined below:

- Outdoor Industrial Worker – Surface soil from onsite SWMUs (LF, SDB and VFSP) via incidental ingestion, dermal contact, inhalation of particulates and inhalation of volatiles; sediment from onsite SWMUs (Eastern and Western WWLs, NAT) via incidental ingestion and dermal contact; and surface water from onsite SWMUs (Eastern and Western WWLs, NAT, SDB and VFSP) via incidental ingestion and dermal contact.
- Indoor Industrial Worker – Indoor air (vapor intrusion from groundwater) from onsite groundwater (associated with Eastern and Western WWLs, LF, NAT, RAB, SDB, VFSP and MHB wells) via inhalation.
- Construction Worker – Surface soil from onsite SWMUs via incidental ingestion, dermal contact, inhalation of particulates and inhalation of volatiles; onsite groundwater via incidental ingestion, dermal contact, and inhalation of volatiles; and sediment and surface water from onsite SWMUs via incidental ingestion and dermal contact.
- Youth Trespasser – Sediment and surface water from onsite surface water bodies (East Bear Creek, West Bear Creek and the Unnamed Tributary) via incidental ingestion and dermal contact.
- Recreational Adult and Youth – Sediment and surface water from offsite surface water bodies (Cattail Creek and Bailey Creek) via incidental ingestion and dermal contact.

Additional information regarding the potential human receptors and exposure routes evaluated in the Exposure Assessment of the HHRA can be found in Section 4.0 of **Attachment A**.

5.2 Ecological Receptors

In order to identify potential species or ecosystems that could be at risk, representative ecological receptors were selected based on the potential to be exposed to constituents of potential ecological concern (CPEC). This potential receptor identification is one of the objectives of the problem formulation phase of the BERA (**Attachment B**).

Potential habitats were identified during previous site reconnaissance (conducted as part of the 2007 SLERA) as well as more recent site visits and USEPA recommendations. The following habitats have been identified at the site:

- Terrestrial habitat of the Landfill area;
- Aquatic habitat of the Eastern and Western WWLs, NAT, SDB and VFSP (lentic systems); and
- Aquatic habitat of East and West Bear Creek, the Unnamed Tributary, Bailey Creek and Cattail Creek (lotic systems).

The selection of representative species and receptor groups was based on species residence in the receptor habitats, dynamics, toxicological sensitivity to constituents and ecological relevance. Other factors that can affect the perceived value of different species, such as status as a game or commercial species or as a threatened or endangered species, were also considered.

The following representative species and receptor groups were evaluated as potential ecological receptors at the site:

- Terrestrial birds (American robin and red-tailed hawk);
- Terrestrial mammals (short-tailed shrew and red fox);
- Aquatic invertebrates and fish;
- Semi-aquatic birds (mallard and great blue heron); and
- Semi-aquatic mammals (mink).

The following potentially complete and significant exposure pathways have been identified for the site:

- Incidental ingestion of surface soil by terrestrial birds and mammals;
- Ingestion of plants, invertebrates and small animal prey by terrestrial birds and mammals;

- Direct contact with sediment and surface water by macroinvertebrates and fish;
- Incidental ingestion of sediment by semi-aquatic birds and mammals;
- Ingestion of surface water by semi-aquatic birds and mammals; and
- Ingestion of prey (invertebrates and fish) by semi-aquatic birds and mammals.

Additional information regarding the potential ecological receptors can be found in Section 3.3 of the BERA (**Attachment B).**

6.0 RISK ASSESSMENTS

The quantitative risk assessments for the Facility have been conducted in order to evaluate the potential for adverse effects to human and ecological receptors that may be associated with constituents present in environmental media at the site. The results of the risk assessments will serve as the building blocks for future risk management decisions at the site.

The human health and ecological risk assessments were conducted in accordance with standard and customary approaches specified by the USEPA. Constituents associated with surface soil, groundwater, sludge/sediment and surface water for the retained SWMUs and areas of interest were included as appropriate in the assessments. Further information is provided in the sections below and the complete HHRA and BERA reports are included as **Attachments A and B,** respectively.

6.1 Risk Assessment Process

6.1.1 Human Health

The human health risk assessment process consists of four major components:

- Data collection and evaluation;
- Exposure assessment;
- Toxicity assessment; and
- Risk characterization.

The retained SWMUs and areas of interest (i.e., surface water bodies) were evaluated as discrete exposure areas. The soil, groundwater, sludge/sediment and surface water data from each exposure area were evaluated in order to identify constituents of interest (COI). The data, which included both target analytes and TICs, were

compared to appropriate USEPA health-based screening values which address the relevant human exposure pathways in each area. For analytes where specific screening values were not available (or in cases of TICs where probable identities were assumed), screening values were chosen based on appropriate surrogate constituents.

Based on the current and anticipated future land use of the site, the potential current and future receptors were selected and evaluated for the various exposure routes identified in Section 5.1. Exposure point concentrations for the COI for each exposure area or medium were either statistically calculated or were modeled using USEPA fate and transport equations.

For the toxicity assessment, toxicity values for the COI were derived from the USEPA Integrated Risk Information System (IRIS) database and other relevant USEPA sources. In some cases, toxicity values were selected based on appropriate surrogate constituents.

The risk characterization was then conducted for each potential receptor, exposure pathway and constituent in each area of interest. Benchmarks used in the assessment were consistent with USEPA guidance and consisted of an upperbound target of 1 x 10^{-4} for potential cumulative cancer risks, a target noncancer hazard index (HI) of 1, and an upperbound fetal blood lead level of 10 micrograms per deciliter (µg/dL).

6.1.2 Ecological

The ecological risk assessment process used for the site consisted of four major components:

- Baseline problem formulation;
- Ecological effects evaluation;
- Characterization of exposure; and
- Risk characterization and uncertainty analysis.

As previously indicated, a SLERA was completed for the site in 2007. The SLERA concluded that a BERA was necessary to further evaluate specific media and areas of the site. The BERA incorporates additional data and expands upon the risk characterization presented in the SLERA. Soil, sediment and surface water analytical data were incorporated into the BERA along with macroinvertebrate data collected from each of the aquatic habitats.

The problem formulation step of the BERA identified the species or ecosystems potentially at risk, the constituents known to be present or expected to be present at the site, and the potential ecological effects to be evaluated. Representative

ecological receptors were selected based on the potential to be exposed to CPEC and as outlined in **Section 5.2**.

Soil, sediment and surface water data from each of the SWMUs and surface water bodies were evaluated in order to identify CPEC. The data were compared to applicable ecological screening benchmarks from USEPA which address the relevant endpoints for terrestrial and aquatic receptors. In cases where screening benchmarks were not available, benchmarks were selected based on appropriate surrogate constituents.

The ecological receptors were evaluated for potential exposure to CPEC in each area through ingestion of source material (soil, sediment and surface water) and ingestion of food sources that could accumulate the CPEC via bioconcentration. Macroinvertebrate sample results provided a direct measure of effects in each of the aquatic habitats of the site. The sample results were scored and compared relative to each other to assess the biotic integrity of each location.

The risk characterization provided quantitative estimates (ecological HQs) of the potential for adverse effects. In general, ecological HQs of one or less indicated negligible potential for increased mortality or decreased reproduction to the receptor. An ecological HQ greater than one does not necessarily indicate adverse effects. These results must be evaluated along with the actual observed effects on the receptor species, results from other analyses such as the macroinvertebrate sampling and consideration of uncertainties and conservative assumptions.

6.2 Risk Assessment Results

6.2.1 Human Health

The following results, as excerpted from the HHRA (**Attachment A**), were provided by the risk characterization conducted in the human health risk assessment:

- **Eastern WWL (SWMU #3)** – For the outdoor worker potentially exposed to COI in sediment and surface water, the total noncancer HI is 0.035 and the potential cancer risk is 4.16×10^{-5}. For the construction worker potentially exposed to COI in groundwater, sediment and surface water, the total noncancer HI is 0.16 and the potential cancer risk is 1.88×10^{-6}. For the indoor worker potentially exposed to COI in indoor air (vapor intrusion from groundwater associated with both the Eastern and Western WWL) the potential cancer risk is 9.32×10^{-10}. None of the COI for this area and pathway were associated with noncarcinogenic effects; therefore an HI was not calculated for the indoor worker.

- **Western WWL (SWMU #4)** – For the outdoor worker potentially exposed to COI in sediment and surface water, the total noncancer HI is 0.027, and the potential cancer risk is 8.59×10^{-6}. For the construction worker potentially

exposed to COI in groundwater, sediment and surface water, the total noncancer HI is 0.16 and the potential risk is 1.56×10^{-7}.

- **Old Landfill & Landfill #156 (SWMU #5)** – For the outdoor worker potentially exposed to COI in soil, the total noncancer HI is 0.11 and the potential cancer risk is 3.03×10^{-5}. For the construction worker potentially exposed to COI in soil and groundwater, the total noncancer HI is 0.056 and the potential cancer risk is 4.79×10^{-7}. For the indoor worker potentially exposed to COI in indoor air (vapor intrusion from groundwater), the total noncancer HI is 0.000026 and the potential cancer risk is 1.49×10^{-8}. Finally, for the construction worker potentially exposed to lead in groundwater, the 95th percentile adult blood lead level is 6.26 µg/dL and the 95th percentile fetal blood lead level is 5.63 µg/dL.

- **Natrosol Lagoon (SWMU #7)** – For the outdoor worker potentially exposed to COI in sediment and surface water, the total noncancer HI is 0.028 and the potential cancer risk is 8.34×10^{-6}. For the construction worker potentially exposed to COI in groundwater, sediment and surface water, the total noncancer HI is 0.087 and the potential cancer risk is 1.70×10^{-7}. For the indoor worker potentially exposed to COI in indoor air (vapor intrusion from groundwater), the total noncancer HI is 0.0047 and the potential cancer risk is 9.92×10^{-10}. For the construction worker potentially exposed to lead in groundwater, the 95th percentile adult blood level is 6.26 µg/dL and the 95th percentile fetal blood lead level is 5.63 µg/dL.

- **Reten/Aqualon Basin (SWMU #8)** – For the construction worker potentially exposed to COI in groundwater, the total noncancer HI is 0.13 and the potential cancer risk is 2.64×10^{-7}. For the indoor worker potentially exposed to COI in indoor air (vapor intrusion from groundwater), the total noncancer HI is 0.00011. None of the COI for this area and pathway were associated with carcinogenic effects; therefore a potential cancer risk was not calculated for the indoor worker. For the construction worker potentially exposed to lead in groundwater, the 95th percentile adult blood lead level is 6.26 µg/dL and the 95th percentile fetal blood lead level is 5.64 µg/dL.

- **Sludge Drying Beds (SWMU #14)** – For the outdoor worker potentially exposed to COI in soil and surface water, the total noncancer HI is 0.023 and the potential cancer risk is 3.10×10^{-5}. For the construction worker potentially exposed to COI in soil, groundwater and surface water, the total noncancer HI is 0.046 and the potential cancer risk is 3.56×10^{-6}. For the construction worker potentially exposed to lead in groundwater, the 95th percentile adult blood lead level is 6.26 µg/dL and the 95th percentile fetal blood lead level is 5.64 µg/dL.

- **Vacuum Filter Sludge Pile (SWMU #15)** – For the outdoor worker potentially exposed to COI in soil and surface water, the total noncancer HI is 0.20 and the potential cancer risk is 7.53×10^{-5}. For the construction worker

potentially exposed to COI in soil, groundwater and surface water, the total noncancer HI is 0.065 and the potential cancer risk is 6.63×10^{-6}. For the construction worker potentially exposed to lead in groundwater, the 95th percentile adult blood lead level is 6.26 µg/dL and the 95th percentile fetal blood lead level is 5.63 µg/dL.

- **Main Holding Basin** – For the construction worker potentially exposed to COI in groundwater, the total noncancer HI is 0.16 and the cancer risk is 1.57×10^{-7}. For the indoor worker potentially exposed to COI in indoor air (vapor intrusion from groundwater), the total noncancer HI is 0.00021 and the potential cancer risk is 1.88×10^{-8}. For the construction worker potentially exposed to lead in groundwater, the 95th percentile adult blood lead level is 6.26 µg/dL and the 95th percentile fetal blood lead level is 5.63 µg/dL.

- **East Bear Creek** – For the youth trespasser potentially exposed to COI in the surface water and sediment, the total noncancer HI is 0.13 and the potential cancer risk is 3.65×10^{-5}. For the youth trespasser potentially exposed to lead in surface water, the 95th percentile adult blood lead level is 6.27 µg/dL and the 95th percentile fetal blood lead level is 5.64 µg/dL.

- **West Bear Creek** – For the youth trespasser potentially exposed to COI in the surface water and sediment, the total noncancer HI is 0.074 and the potential cancer risk is 7.20×10^{-6}.

- **Unnamed Tributary** – For the youth trespasser potentially exposed to COI in the surface water and sediment, the total noncancer HI is 0.11 and the potential cancer risk is 5.40×10^{-6}. For the youth trespasser potentially exposed to lead in surface water, the 95th percentile adult blood lead level is 6.26 µg/dL and the 95th percentile fetal blood lead level is 5.64 µg/dL.

- **Cattail Creek** – For the recreational adult potentially exposed to COI in the surface water and sediment, the total noncancer HI is 0.10 and the potential cancer risk is 1.64×10^{-5}. For the recreational youth potentially exposed to COI in the surface water and sediment, the total noncancer HI is 0.16 and the potential cancer risk is 1.53×10^{-5}.

- **Bailey Creek** – For the recreational adult potentially exposed to COI in the surface water and sediment, the total noncancer HI is 0.018 and the potential cancer risk is 2.04×10^{-6}. For the recreational youth potentially exposed to COI in the surface water and sediment, the total noncancer HI is 0.025 and the potential cancer risk is 2.52×10^{-6}.

The results of the human health risk assessment indicate that for all receptors and exposure areas, the total HIs, potential cumulative cancer risks, and predicted fetal blood lead levels meet the target benchmarks. As such, no further evaluation is warranted.

6.2.2 Ecological

The following results, as excerpted from the BERA (**Attachment B**), were provided by the risk characterization conducted in the ecological risk assessment:

- Calculated no-observable-effects level (NOAEL) – based HQs for terrestrial birds and mammals including the short-tailed shrew, red fox and red-tailed hawk potentially exposed to CPEC in the LF (SWMU #5) were less than 1. For the American robin, the low-observable-effects level (LOAEL) – based HQ for vanadium exceeded 1. Vanadium in site soils is considered to be present at concentrations consistent with regional background levels.

- Calculated HQs for aquatic receptor groups (invertebrates and fish) potentially exposed to CPEC in surface water and sediment of the Eastern and Western WWLs, NAT, SDB, VFSP and all surface water bodies were less than 1 for the majority of CPEC. Of those greater than 1, only a few CPEC have HQs that exceed by more than an order of magnitude: acetone, aluminum, barium, iron and zinc. These CPEC are unlikely to be site-related and/or are localized in extent.

- The results of the macroinvertebrate survey for samples collected from aquatic habitats indicated that invertebrate populations associated with the site consist mostly of species that are considered tolerant to physical and chemical impacts. These results are typical for areas influenced by domestic use. Bottom sediment samples from the Eastern and Western WWLs and NAT exhibited low invertebrate population densities; it would appear that the physical nature of the bottom sediments (described as "muck" or old sludge), rather than chemical presence, is the most likely reason for the low numbers of organisms. Bailey Creek represents habitat that scored highest in level of biotic integrity, while the sediment associated with the VFSP represents habitat with the lowest biotic integrity score. These results are generally correlated with the results of the HQ calculations.

- Calculated NOAEL-based HQs for semi-aquatic birds and mammals (mallard duck, great blue heron and mink) potentially exposed to CPEC in surface water and sediment of the Eastern and Western WWLs, NAT, SDB, VFSP and surface water bodies were less than 1 for the majority of CPEC. A few CPEC have LOAEL-based HQs that exceed 1: bis(2-ethylhexyl)phthalate (BEHP), thallium, vanadium and zinc. Of theses, thallium and vanadium are considered to be present at concentrations consistent with background and BEHP, most likely associated with laboratory contamination. Zinc in sediments of the VFSP is present at concentrations that may exceed average background, though it may not be present as a result of a site release.

- Calculated HQs for the majority of TICs were less than 1, and of those greater than 1, a few TICs had HQs that exceeded by more than an order of

magnitude. These consist of 2,2-dimethoxy-propane (soil from the LF); 1-docosanethiol, 1-dotriacontanol, 2,4,6,7,8,8a-hexahydro-5(iH)-azulenone and benzo[b]-naphtho[2,3-d]furan (sediment from the VFSP) and unknown; chemical class: alcohol (sediment from Cattail Creek). In most cases where HQs exceeded 1, the toxicity benchmarks were based on screening benchmarks for surrogate constituents. Thus, the uncertainty associated with their toxicity is very high, and results may not accurately reflect the potential for ecological hazard. There is also considerable uncertainty associated with the reported concentrations of TICs. For these reasons, the BERA concludes that potential for ecological hazard resulting from exposure to TICs in soil, sediment or surface water from the site poses such high levels of uncertainty that other measures that have been applied provide a superior basis for decision making.

Although some HQs greater than 1 were calculated, the HQs are considered to be overestimated for a number of reasons as outlined in the BERA (**Attachment B**). The inclusion of multiple conservative assumptions typically results in calculated HQs that are an order of magnitude (or more) higher than would be calculated for a more realistic scenario. The uncertainty in most aspects of this ecological assessment is so high, that visual observations of habitat quality are a more useful indicator of potential adverse effects than the quantitative calculations. In general, adverse ecological hazards to terrestrial and aquatic receptors at the site were not visually observable and likely associated with disturbance to physical habitat rather than the presence of chemical constituents.

Overall, the HQ calculations are generally low, the invertebrate metric results are typical for areas influenced by domestic use, and there is a lack of any visually observable adverse effects. While some LOAEL-based HQs exceed one and some areas show lower macroinvertebrate results than the optimal, the HQ calculations are extremely conservative and the macroinvertebrate results are very susceptible to habitat quality influences that are unrelated to chemical presence.

7.0 TRANSFER TO GROUNDWATER EVALUATION

As indicated in the sections above, the risk calculations were based on the 2007 data set. The transfer to groundwater pathway was not included in the quantitative risk assessments conducted for the site; however, given the age of the units, coupled with the fact that the groundwater concentrations appear to be stable and/or decreasing over time, we do not anticipate the dissolved phase impacts to increase over time. Existing soil/sludge/sediment data were screened against applicable criteria and groundwater quality trends (including the recently collected 2011 groundwater data) were evaluated for each of the retained SWMUs in order to provide an indication of the potential for the groundwater concentrations to increase over time. It should be noted that no solid samples were collected from the RAB or the MHB, so only

groundwater quality trends were evaluated. The complete groundwater trend evaluation is included in **Section 8.0** of this report.

7.1 USEPA Regional Screening Levels

7.1.1 Screening of Phase III Data Using October 2007 Screening Levels

The results of the initial screening were reported to the USEPA in the November 2007 *Phase III SISR*. The validated Phase III solid (soil, sludge and sediment) analytical results were originally screened against the applicable RBSLs at the time, which included the October 2007 USEPA Region 3 SSLs using a Dilution Attenuation Factor (DAF) of 1 and 20.

The full analytical results were screened against both the DAF1 and DAF20 USEPA Region 3 SSLs as provided in Table 18 of the November 2007 *Phase III SISR*. Screening of detected constituents from each of the SWMUs and surface water bodies was provided in Tables 1, 2, 7, 12, 17, 21, 23, 27 and 28 of the *Phase III SISR*. In accordance with the USEPA-approved April 2007 *Phase III SAP*, only the DAF20 SSLs were used for actual data evaluation in the *Phase III SISR*.

7.1.2 Re-Screening of Phase III Data Using June 2011 Screening Levels

For the purposes of evaluating the transfer to groundwater pathway, the Phase III analytical detections (previously reported in Tables 1, 2, 7, 12, 17, 21, 23, 27 and 28 of the *Phase III SISR)* were re-screened against current, applicable RBSLs - Protection of Groundwater SSLs. Specifically, the SSLs used as part of this evaluation include:

- Protection of Groundwater – MCL-Based (DAF1) and Risk-Based (DAF1) SSLs derived from the Regional Screening Table dated June 2011; and

- Protection of Groundwater – Calculated MCL-Based (DAF20) and Risk-Based (DAF20) SSLs derived from the Regional Screening Table dated June 2011.

The SSLs presented in the Regional Screening Table are based on a DAF of 1. Therefore, in order to derive DAF20 SSLs, the DAF1 SSLs were multiplied by 20 and incorporated into the screening tables. As previously stated, the use of DAF20 SSLs for data evaluation purposes was outlined in Section 3.5 of the USEPA-approved April 2007 *Phase III SAP*.

In addition to the 2007 Phase III SWMU analytical data, the December 2001 Phase I analytical detections from the VFSP (SWMU #15) and SDB (SWMU #14) that were re-screened in the *Phase III SISR* have been included in this evaluation as well. The lead detections from the 2009 supplemental sampling conducted in the LF (SWMU

#5) have also been included. The screening results (including field duplicate results) are provided in **Tables 15 through 21**.

Site background concentrations (for metals only), which were originally provided by the USEPA and were incorporated into Tables 1 and 2 of the November 2007 *Phase III SISR,* have also been used to evaluate the data. Where both a Risk-Based and MCL-Based SSL are provided, the MCL-Based SSL was used.

The SSLs listed above have been utilized to evaluate the potential for residual soil/sludge impacts to impact groundwater at the site. This evaluation, coupled with the general trend analysis described in **Section 8.0**, is intended to support the findings of the HHRA (**Attachment A**) and BERA (**Attachment B**). Further description regarding screening of soil/sludge/sediment analytical results is provided in **Section 7.2**.

7.1.3 Groundwater Quality Data

In addition to the soil/sludge/sediment screening conducted as outlined in **Section 7.1.1 and 7.1.2** above, groundwater concentrations detected at the site over time were evaluated as well in order to evaluate water quality trends. Available groundwater data for compounds of interest (i.e., compounds that have exhibited exceedances of applicable screening criteria) for each monitoring well were compiled and tabulated (see **Attachment J**) for review and evaluation.

The 2007 Phase III groundwater sampling event was the first comprehensive site-wide sampling event; followed by the 2011 groundwater sampling event. The oldest monitoring wells at the site (MHB wells and NAT wells) inevitably have more temporal data available. Newer wells, such as the SDB and VFSP wells, were installed in 2007 and therefore were first sampled as part of the Phase III Investigation. The sampling dates for the site monitoring wells are provided below and are shown in the tables included in **Attachment J**. It should be noted that for select sampling dates for some wells, only select compounds were analyzed for rather than a full suite of analytes.

MW-1, -7L: 1990, 2007 and 2011;

MW-2, -3, -4, -4U, -5, -5U, -6, -7U, -8U: 1990, 1992, 2007 and 2011;

MW-5D: 1992;

MW-8L: 1990, 1992, and 2007;

MW-8D, -9, -10: 1992, 2007 and 2011;

NAT-1, -2, -3, -4: 1996, 1997, 1998, 1999, 2000, 2007 and 2011;

RABMW-2, -3, -4: 2001, 2007 and 2011;

LF-1, -2, -3, -4, -5: 2002, 2007 and 2011;

WWL-1, -2, -3L, -3U: 2002, 2007 and 2011;

SDBMW-1, -2, -3: 2007 and 2011; and

VFSPMW-1: 2007 and 2011.

The analytical results presented in the tables included in **Attachment J** have been screened against applicable groundwater standards (June 2011 Regional Tapwater RSLs and the USEPA MCLs) for evaluation.

7.2 Results

Detected soil/sludge/sediment analytical results are presented herein on an individual SWMU basis. As detailed in **Section 7.1**, the validated analytical data were screened against RBSLs including site background concentrations and Protection of Groundwater SSLs (i.e., Risk-Based SSL (DAF1 and DAF20) and MCL-Based SSL (DAF1 and DAF20) (see **Tables 15 through 21**). Certain constituents (target analytes and TICs) for which RBSLs were not available were compared to the same "surrogates" used in the risk assessments. Selected surrogates were identified in Table 3-1 of the HHRA (**Attachment A**) and the applicable screening values have been added to **Tables 15 through 21** as appropriate. Constituents for which surrogates were selected are flagged as such in the tables.

For the purposes of this evaluation, only actual detections were re-screened against current RBSLs. A complete analytical summary table (including all detections and non-detects) was previously provided as Table 18 of the November 2007 *Phase III SISR*.

Exceedances of USEPA Protection of Groundwater SSLs with a DAF1 are shown in **Tables 15 through 21** for informational purposes only and are not discussed within this section.

Analyte concentrations in exceedance of Protection of Groundwater SSLs shall be eliminated from further consideration if detected at less than their respective site background concentration. Similarly, analyte concentrations in exceedance of the Risk-Based SSL but less than the MCL-Based SSL shall be eliminated from further consideration. Where exceedances of respective SSLs remained, the available groundwater data from associated monitoring wells were evaluated in order to ascertain whether Tapwater RSL or USEPA MCL exceedances exist for the select compounds.

7.2.1 Eastern and Western Whitewater Lagoons (WWL) – SWMUs #3 and #4

7.2.1.1 Summary of Protection of Groundwater Exceedances

Eastern Whitewater Lagoon

The analytical detections identified in the sludge/sediment samples collected from five (5) borings (i.e., ELSS-1, ELSS-2, ELSS-3, ELSS-4 and ELSS-5) are summarized in **Table 15** and were shown on Figure 12 of the November 2007 *Phase III SISR*. No organic parameters (VOCs, SVOCs or alcohols/glycols) were detected above the Risk-Based DAF20 SSLs or MCL-Based DAF20 SSLs.

VOC and SVOC TICs results (identified compounds) detected in the sludge/sediment samples are presented in **Table 15** as well. Carbon dioxide was detected in all sludge/sediment samples but does not have a Risk-Based DAF20 SSL of MCL-Based DAF20 SSL. However, since carbon dioxide has low inherent toxicity it was not evaluated any further.

The SVOC TIC identified as 1,1,2,2-tetrachloroethane was detected in the ELSS-3B sample at a concentration (260 T µg/kg) exceeding the Risk-Based DAF20 SSL. The result was T-qualified indicating that the TIC is a targeted analyte of another analysis fraction. 1,1,2,2-tetrachloroethane was also analyzed for as a VOC. The VOC analysis results for all the Eastern WWL sludge/sediment samples were non-detect; however, the reporting limits were greater than the Risk-Based DAF20 SSL for 1,1,2,2-tetrachloroethane of 0.52 µg/kg. No MCL-Based DAF20 SSL was available.

The following inorganic compounds were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- Arsenic (6,200 µg/kg and 6,500 µg/kg) – MCL-Based DAF20 SSL exceedances;
- Cobalt (18,000 µg/kg detected in ELSS-3B only) – Risk-Based DAF20 SSL exceedance;
- Iron (ranging from 14,000,000 µg/kg to 24,000,000 J µg/kg) – Risk-Based DAF20 SSL Exceedances; and

Both arsenic concentrations are less than the maximum background concentration of 8,600 µg/kg as provided by the USEPA in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*. All iron concentrations are less than the maximum background concentration of 34,600,000 µg/kg as well. Other inorganic compounds (calcium, magnesium, potassium, sodium, chloride, nitrate/nitrite, TKN, TOC and sulfate) were detected in sludge/sediment samples but do not have DAF20 SSLs. These compounds are not evaluated any further because they are commonly detected in groundwater and are considered environmentally insignificant.

Western Whitewater Lagoon

The analytical detections identified in the collected sludge/sediment samples collected from five (5) borings (i.e., WLSS-1, WLSS-2, WLSS-3, WLSS-4 and WLSS-5) are summarized in **Table 15** and were shown on Figure 12 of the November 2007 *Phase III SISR*. No organic parameters (VOCs, SVOCs or alcohols/glycols) were detected above the Risk-Based DAF20 SSLs or MCL-Based DAF20 SSLs.

VOC and SVOC TICs results (identified compounds) detected in the sludge/sediment samples are presented in **Table 15** as well. None of the detected TICs exceeded applicable Risk-Based DAF20 SSLs or MCL-Based SSLs. Carbon dioxide and .gamma.-Sitosterol do not have Risk-Based DAF20 SSLs or MCL-Based DAF20 SSLs; however, these TICs have low inherent toxicity or are similar in structure to compounds with low inherent toxicity. Therefore, carbon dioxide and .gamma.-Sitosterol were not evaluated any further.

The following inorganic compounds were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- Arsenic (6,500 J µg/kg detected in WLSS-2A only) - MCL-Based DAF20 SSL exceedance;
- Cobalt (13,000 µg/kg detected in WLSS-4B only) – Risk-Based DAF20 SSL exceedance;
- Iron (ranging from 13,000,000 J µg/kg to 25,000,000 J µg/kg) – Risk-Based DAF20 SSL exceedances; and

The arsenic exceedance and cobalt exceedance are both less than their maximum background concentration of 8,600 µg/kg and 14,400 µg/kg, respectively. All iron concentrations are less than the maximum background concentration of 34,600,000 µg/kg as well. Other inorganic compounds (calcium, magnesium, potassium, sodium, chloride, nitrate/nitrite, TKN, TOC and sulfate) were detected in sludge/sediment samples but do not have DAF20 SSLs. These compounds are not evaluated any further because they are commonly detected in groundwater and are considered environmentally insignificant.

7.2.1.2 Conclusions/Recommendations

Only the detections of 1,1,2,2-tetrachloroethane, arsenic, cobalt, and iron exhibited exceedances of their respective Risk-Based DAF20 SSLs and/or MCL-Based DAF20 SSLs. No other organic parameters (VOCs, SVOCs, alcohols/glycols) were detected above the Risk-Based DAF20 SSLs or MCL-Based DAF20 SSLs.

One VOC TIC (carbon dioxide) and one SVOC TIC (.gamma.-Sitosterol) were detected that do not have Risk-Based DAF20 SSLs or MCL-Based SSLs. These TICs

were identified as having low inherent toxicity and were, therefore, not further evaluated. Other inorganic compounds (calcium, magnesium, potassium, sodium, chloride, nitrate/nitrite, TKN, TOC and sulfate) that were detected but do not have DAF20 SSLs were not evaluated any further because they are commonly detected in groundwater and are considered environmentally insignificant.

The MCL-Based DAF20 SSL arsenic exceedances are consistent with regional background concentrations in soil; see **Section 7.2.1.1** for further information. In addition, the arsenic concentrations detected in the WWL wells in 2007 and 2011 were well below the MCL of 10 ug/L. Therefore, arsenic concentrations do not pose a Protection of Groundwater risk. The sludge/sediment concentrations of iron are likely indicative of local background concentrations as well and are environmentally insignificant from a risk perspective.

Although the SVOC TIC detection of 1,1,2,2-tetrachloroethane in sample ELSS-3B exceeded the Risk-Based DAF20 SSL, it was not detected in groundwater samples collected from the WWL series wells (WWL-1, WWL-2, WWL-3U and WWL-3L) during the 2002 Phase II 2007 Phase III or 2011 site-wide groundwater sampling events. It should be noted that the reporting limits (RLs) and associated method detection limits (MDLs) for the results exceed the current June 2011 Tapwater RSL of 0.067 µg/L.

Cobalt exceeded the Risk-Based DAF20 SSL in samples ELSS-3B and WLSS-4B. However, the cobalt concentration detected in sample WLSS-4B was consistent with regional background concentrations. Cobalt was detected in the WWL wells during the 2002 Phase II groundwater sampling event at concentrations ranging from 2.5 B µg/L to 110 µg/L which exceeds the current adjusted June 2011 Tapwater RSL of 1.1 ug/L (0.1 adjustment for non-carcinogens) and the non-adjusted RSL of 11 µg/L. During the 2007 Phase III groundwater sampling event, cobalt was detected in WWL wells at concentrations ranging from 4.8 µg/L to 79 µg/L. Cobalt was also detected in the WWL wells during the 2011 site-wide groundwater sampling event at concentrations ranging from 2.1 µg/L to 110 µg/L. Although these concentrations exceed the relevant screening criteria, the cobalt concentrations have generally remained stable over time. Further information regarding observed groundwater quality trends in the WWL wells is provided in **Section 8.1**.

Given the length of time (> 30 years) the sludge has been retained in the lagoons, it is expected that the source strength has diminished and the groundwater concentrations are expected to remain stable or decrease over time.

7.2.2 Old Landfill and Landfill #156 (LF) – SWMU #5

7.2.2.1 Summary of Protection of Groundwater Exceedances

The analytical detections identified in the 2007 Phase III soil samples collected from eight (8) borings (i.e., OLF-1 through OLF-8) are summarized in **Table 16** and were

shown on Figure 14 of the November 2007 *Phase III SISR*. In addition, the lead detections identified during the 2009 supplemental sampling event are summarized in **Table 3**, as described in **Section 3.4** and shown on **Figure 5**. No organic parameters (VOCs, SVOCs or alcohols/glycols) were detected above their respective Risk-Based DAF20 SSLs and/or MCL-Based DAF20 SSLs.

VOC and SVOC TICs results (identified compounds) detected in the soil samples are presented in **Table 16** as well. None of the detected VOC TICs exceeded applicable Risk-Based DAF20 SSLs or MCL-Based DAF20 SSLs.

The following SVOC TICs were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- 1-methyl-4-(1-methylethyl)-benzene (210 JN µg/kg detected in the field duplicate for OLF-1 only) – MCL-based DAF20 SSL exceedance;
- 28-Norolean-17-en-3-one (1,500 JN µg/kg detected in the field duplicate for OLF-1 only) - Risk-Based DAF20 SSL exceedance;
- 4-hydroxy-4-methyl-2-Pentanone (19,000 A µg/kg and 15,000 A µg/kg) – Risk-Based DAF20 SSL exceedances;
- Methylene chloride (210 T µg/kg and 290 T µg/kg) – MCL-Based DAF20 SSL exceedances; and
- 2,2-dimethoxypropane (1,200 JN µg/kg and 1,800 JN µg/kg) – MCL-Based DAF20 SSL exceedances.

The results for 4-hydroxy-4-methyl-2-Pentanone were A-qualified indicating that the TICs are suspected aldol-condensation products. Therefore, the results for 4-hydroxy-4-methyl-2-Pentanone were not evaluated further.

The SVOC TIC identified as methylene chloride was detected in samples OLF-7 and OLF-8 at concentrations exceeding its MCL-Based DAF20 SSL. The results were T-qualified indicating that the TIC is a targeted analyte of another analysis fraction. Methylene chloride was also analyzed for as a VOC. The methylene chloride VOC results for all the LF soil samples were non-detect with RLs less than the Risk-Based DAF20 SSL and MCL-Based DAF20 SSL. As such, the T-qualified detections will not be evaluated further.

Remaining detected VOC and SVOC TICs that do not have applicable screening criteria were identified as having low inherent toxicity or are similar in structure to compounds with low inherent toxicity; therefore, they will not be evaluated further.

The following inorganic compounds were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- Arsenic (22,000 µg/kg from OLF-6 only) – MCL-Based DAF20 SSL exceedance;

- Cobalt (14,000 K µg/kg from OLF-6 only) – Risk-Based DAF20 SSL exceedance; and

- Iron (ranging from 14,000,000 µg/kg to 32,000,000 µg/kg) – Risk-Based DAF20 SSL exceedances.

The cobalt concentration is less than the maximum background concentration of 14,400 µg/kg. All iron concentrations are less than the maximum background concentration of 34,600,000 µg/kg as well. Other inorganic compounds (calcium, magnesium, potassium, sodium, chloride, nitrate/nitrite, TKN, TOC and sulfate) were detected in sludge/sediment samples but do not have Protection of Groundwater SSLs. These compounds are not evaluated any further because they are commonly detected in groundwater and are considered environmentally insignificant.

7.2.2.2 Conclusions/Recommendations

Only the detections of arsenic, cobalt, iron and several SVOC TICs (1-methyl-4-(1-methylethyl)-benzene, 28-Norolean-17-en-3-one, 4-hydroxy-4-methyl-2-Pentanone, methylene chloride and 2,2-dimethoxypropane) exhibited exceedances of their respective Risk-Based DAF20 SSLs and/or MCL-Based DAF20 SSLs.

The cobalt concentration is consistent with regional background concentrations in soil; see **Section 7.2.2.1** for further information. Therefore, the cobalt Risk-Based DAF20 SSL exceedance does not pose a Protection of Groundwater risk. The soil concentrations of iron are likely indicative of local background concentrations as well and are environmentally insignificant from a risk perspective.

Arsenic exceeded the MCL-Based DAF20 SSL in sample OLF-6. Arsenic was detected in two (2) of the LF wells (LF-2 and LF-3) during the 2007 Phase III groundwater sampling event but at concentrations (0.58 B µg/L and 0.68 J ug/L, respectively) well below the USEPA MCL of 10 µg/L. During the 2011 site-wide groundwater sampling event, arsenic was not-detected in any of the LF wells. Therefore, the isolated arsenic MCL-Based DAF20 SSL exceedance does not pose a Protection of Groundwater risk.

The results for 1-methyl-4-(1-methylethyl)-benzene, 4-hydroxy-4-methyl-2-Pentanone and methylene chloride were not further evaluated as described in **Section 7.2.2.1**. Although 1-methyl-4-(1-methylethyl)-benzene, 28-Norolean-17-en-3-one and 2,2-dimethoxypropane were detected at concentrations exceeding their respective Risk-Based DAF20 SSL or MCL-Based DAF20 SSL, none of these TICs were detected in groundwater associated with the LF wells during the 2007 Phase III or 2011 groundwater sampling events. Therefore, 1-methyl-4-(1-methylethyl)-benzene, 28-Norolean-17-en-3-one and 2,2-dimethoxypropane do not pose a Protection of Groundwater risk.

7.2.3 Natrosol Lagoon (NAT) – SWMU #7

7.2.3.1 Summary of Protection of Groundwater Exceedances

The analytical detections identified in the collected sludge/sediment samples collected from three (3) borings (i.e., NLSS-1, NLSS-2 and NLSS-3) are summarized in **Table 17** and shown on Figure 11 of the November 2007 *Phase III SISR*. No organic parameters (VOCs, SVOCs or alcohols/glycols) were detected above the Risk-Based DAF20 SSLs and/or MCL-Based DAF20 SSLs.

VOC and SVOC TICs results (identified compounds) detected in the soil samples are presented in **Table 17** as well. None of the detected VOC TICs exceeded applicable Risk-Based DAF20 SSLs or MCL-Based DAF20 SSLs.

The following SVOC TICs were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- 1,1,2,2-Tetrachloroethane (170 T µg/kg detected in sample NLSS-3B only) - Risk-Based DAF20 SSL exceedance; and
- 1,2,3,5,6,8a-hexahydro-4,7-Naphthalene (170 JN µg/kg detected in sample NLSS-3B only) – Risk-Based DAF20 SSL exceedance.

The result for 1,1,2,2-tetrachloroethane was T-qualified indicating that the TIC is a targeted analyte of another analysis fraction. 1,1,2,2-tetrachloroethane was also analyzed for as a VOC. The 1,1,2,2-tetrachloroethane VOC results for all the NAT sludge/sediment samples were non-detect; however, the RLs were greater than the Risk-Based DAF20 SSL of 0.52 µg/kg. No MCL-Based DAF20 SSL was available.

Remaining detected VOC and SVOC TICs that do not have applicable screening criteria were identified as having low inherent toxicity or are similar in structure to compounds with low inherent toxicity; therefore, they were not evaluated any further.

The following inorganic compound was detected above its respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- Iron (ranging from 15,000,000 µg/kg to 24,000,000 µg/kg) – Risk-Based DAF20 SSL exceedances.

All iron concentrations are less than the maximum background concentration of 34,600,000 µg/kg. Other inorganic compounds (calcium, magnesium, potassium, sodium, chloride, nitrate/nitrite, TKN, TOC and sulfate) were detected in sludge/sediment samples but do not have Protection of Groundwater SSLs. These compounds are not evaluated any further because they are commonly detected in groundwater and are considered environmentally insignificant.

7.2.3.2 Conclusions/Recommendations

Only the detections of iron and SVOC TICs (1,1,2,2-tetrachloroethane and 1,2,3,5,6,8a-hexhydro-4,7-Naphthalene) exhibited exceedances of their respective Risk-Based DAF20 SSLs and/or MCL-Based DAF20 SSLs.

The Risk-Based DAF20 SSL iron exceedances are consistent with regional background concentrations in soil; see **Section 7.2.3.1** for further information. Therefore, the iron exceedances do not pose a Protection of Groundwater risk.

Although the SVOC TIC detection of 1,1,2,2-tetrachloroethane in sample NLSS-3B exceeded the Risk-Based DAF20 SSL, it was not detected in groundwater samples collected from the NAT series wells (NAT-1, 2, 3 and 4) during the 2007 Phase III or 2011 Site-Wide groundwater sampling events. It should be noted that the RLs and associated MDLs for the 2007 and 2011 results exceed the current June 2011 Tapwater RSL of 0.067 µg/L.

The SVOC TIC identified as 1,2,3,5,6,8a-hexhydro-4,7-Naphthalene was not detected in groundwater samples collected from the NAT series wells (NAT-1, 2, 3 and 4) during the 2007 Phase III or 2011 site-wide groundwater sampling events. Therefore, 1,2,3,5,6,8a-hexhydro-4,7-Naphthalene does not pose a Protection of Groundwater risk.

7.2.4 Reten/Aqualon Basin (RAB) – SWMUs #8 and #29

As previously stated, no solid samples were collected from the RAB as part of the Phase III Investigation; therefore, a transfer to groundwater evaluation was not conducted for the RAB. Only groundwater quality trends were evaluated for this unit. Available groundwater data were previously provided in the 2005 *Phase I/II RFI Report* and the 2007 *Phase III SISR Report.* The 2011 groundwater data have been summarized in **Section 3.5.2.4** of this report and the complete analytical reports are included in **Attachments H and I**. The data for select compounds of interest (i.e., compounds that have exhibited exceedances of applicable screening criteria) have been summarized in **Attachment J** to this report and have been evaluated below in **Section 8.4** as well.

7.2.5 Sludge Drying Beds (SBD) – SWMU #14

7.2.5.1 Summary of Protection of Groundwater Exceedances

The analytical detections identified in the soil samples collected from nine (9) borings (i.e., SDB-1 through SDB-9) are summarized in **Table 18 (**Phase I data) and **Table 19** (Phase III data)**.** The Phase I detections were originally shown on Figure 3-3 of the September 2005 *Phase I/II RFI Report*. No organic parameters (VOCs, SVOCs

or alcohols/glycols) were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL.

VOC and SVOC TICs results (identified compounds) detected in the soil samples are presented in **Tables 18 and 19** as well. None of the detected SVOC TICs exceeded applicable Risk-Based DAF20 SSLs or MCL-Based DAF20 SSLs.

The following VOC TICs were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- Hexanal (ranging from 90 J µg/kg to 390 J µg/kg) - Risk-Based DAF20 SSL exceedances; and

- Pentanal (120 J µg/kg detected in sample SDB-5 only) – Risk-Based DAF20 SSL exceedance.

Remaining detected VOC and SVOC TICs that do not have applicable screening criteria were identified as having low inherent toxicity or are similar in structure to compounds with low inherent toxicity; therefore, they were not evaluated any further.

The following inorganic compound was detected above its respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- Iron (ranging from 13,200,000 K µg/kg to 28,600,000 K µg/kg) – Risk-Based DAF20 SSL exceedances.

All iron concentrations were less than the maximum background concentration of 34,600,000 µg/kg. The iron concentrations were also K-qualified, indicating that the result reported is a biased high quantitative estimate and the actual result may be lower than reported. Other inorganic compounds (calcium, magnesium, potassium, sodium, chloride and nitrate) were detected in soil samples but do not have Protection of Groundwater SSLs. These compounds are not evaluated any further because they are commonly detected in groundwater and are considered environmentally insignificant.

7.2.5.2 Conclusions/Recommendations

Only the detections of iron and VOC TICs (hexanal and pentanal) exhibited exceedances of their respective Risk-Based DAF20 SSLs.

The Risk-Based DAF20 SSL iron exceedances are consistent with regional background concentrations in soil; see **Section 7.2.5.1** for further information. Therefore, the iron exceedances do not pose a Protection of Groundwater risk.

Although the VOC TICs hexanal and pentanal were detected at concentrations exceeding their respective Risk-Based DAF20 SSLs, neither of these TICs were detected in groundwater associated with the SDB wells during the 2007 Phase III or

2011 site-wide sampling events. Therefore, hexanal and pentanal do not pose a Protection of Groundwater risk.

7.2.6 Vacuum Filter Sludge Pile (VFSP) – SWMU #15

7.2.6.1 Summary of Protection of Groundwater Exceedances

The analytical detections identified in the collected sludge/sediment samples collected from nine (9) borings (i.e., VFSP-1 through VFSP-9) are summarized in **Table 20 (**Phase I data) and **Table 21** (Phase III data). The Phase I data were shown on Figure 3-2 of the September 2005 *Phase I/II RFI Report*. No organic parameters (VOCs, SVOCs or alcohols/glycols) were detected above the Risk-Based DAF20 SSLs and/or MCL-Based DAF20 SSLs.

VOC and SVOC TICs results (identified compounds) detected in the soil samples are presented in **Tables 20 and 21** as well.

The following SVOC TICs were detected above their respective Risk-Based DAF20 SSL and/or MCL-Based DAF20 SSL:

- 1-Docosanethiol (11,000 JN µg/kg detected in sample VFSP-3 only) – Risk-Based DAF20 SSL exceedance; and
- 2,4,6,7,8,8a-hexahydro-5(1H)-Azulenone (27,000 JN µg/kg and 31,000 JN µg/kg) – Risk-Based DAF20 SSL exceedance.

Remaining detected VOC and SVOC TICs that do not have applicable screening criteria were identified as having low inherent toxicity or are similar in structure to compounds with low inherent toxicity; therefore, they were not evaluated any further.

The following inorganic compounds were detected above their respective Risk-Based DAF20 SSL and MCL-Based DAF20 SSL:

- Arsenic (ranging from 6,200 µg/kg to 9,600 µg/kg) – MCL-Based DAF20 SSL exceedances;
- Cobalt (ranging from 11,200 µg/kg to 25,600 µg/kg) – Risk-Based DAF20 SSL exceedances; and
- Iron (ranging from 38,200,000 K µg/kg to 129,000,000 K µg/kg) – Risk-Based DAF20 SSL exceedances.

Four of the nine arsenic exceedances are less than the maximum background concentration of 8,600 µg/kg. The other concentrations are just slightly greater than the background concentration. Three of the six cobalt exceedances are less than the maximum background concentration of 14,400 µg/kg. All iron concentrations were K-qualified indicating that the results were biased high quantitative estimates and the

actual results may be lower than reported. Other inorganic compounds (calcium, magnesium, potassium, chloride, nitrate, TKN, TOC and sulfate) were detected in sludge/sediment samples but do not have Protection of Groundwater SSLs. These compounds are not evaluated any further because they are commonly detected in groundwater and are considered environmentally insignificant.

7.2.6.2 Conclusions/Recommendations

Only the detections of arsenic, cobalt, iron and SVOC TICs (1-Docosanethiol and 2,4,6,7,8,8a-hexahydro-5(1H)-Azulenone) exhibited exceedances of their respective Risk-Based DAF20 SSLs and/or MCL-Based DAF20 SSLs.

Several arsenic detections exceeded the MCL-based DAF20 SSL as well as regional background concentrations. However, in 2007, arsenic was detected at a concentration of 1.5 B µg/L in the associated well VFSP-MW-1. This concentration is well below the USEPA MCL for arsenic of 10 µg/L. In addition, the result was blank qualified, indicating that the compound was not detected substantially above the associated method blank / preparation or field blank. The arsenic concentration detected during the 2011 site-wide sampling event was non-detect. For these reasons, the arsenic MCL-Based DAF20 SSL exceedances do not pose a Protection of Groundwater risk.

Several cobalt detections exceeded the Risk-Based DAF20 SSL as well as regional background concentrations. Cobalt was detected at low levels during the 2007 Phase III and 2011 site-wide groundwater sampling events (i.e., 2.5 µg/L and 2.2 µg/L, respectively) in well VFSP-MW-1. These concentrations exceed the June 2011 adjusted Tapwater RSL of 1.1 µg/L; however, the cobalt concentrations do not exceed the non-adjusted Tapwater RSL (11 µg/L). Therefore, cobalt does not pose a Protection of Groundwater risk. The soil concentrations of iron are K-qualified (i.e., biased high) and are environmentally insignificant from a risk perspective.

Although the results for several SVOC TICs (1-Docosanethiol and 2,4,6,7,8,8a-hexahydro-5(1H)-Azulenone) exceeded their respective Risk-Based DAF20 SSLs, neither 1-Docosanethiol or 2,4,6,7,8,8a-hexahydro-5(1H)-Azulenone were detected in the groundwater monitoring well VFSP-MW-1 during the 2007 and 2011 groundwater sampling events. Therefore, 1-Docosanethiol and 2,4,6,7,8,8a-hexahydro-5(1H)-Azulenone do not pose a Protection of Groundwater risk.

7.2.7 Main Holding Basin Wells

As previously stated, no solid samples were collected from the MHB as part of the Phase III Investigation; therefore, a transfer to groundwater evaluation was not conducted for the MHB. In addition, all source material previously located in the MHB has long been removed. Only groundwater quality trends were evaluated for this unit. The 2007 Phase III groundwater sampling event was the first comprehensive sampling event that included all MHB wells (with the exception of

MW-5D) for analysis of a complete suite of compounds. The 2007 data were provided in the November 2007 *Phase III SISR*. The 2011 site-wide groundwater sampling event was the second comprehensive sampling event. These data were summarized in **Section 3.5.2.7** of this report and the complete analytical reports and data validation reports have been included in **Attachments H and I**, respectively. Additional historical data for the wells were available from reports previously submitted to the VADEQ for the unit. These reports include the *Groundwater Quality Assessment Program* (WESTON, February 1992) and the *Groundwater Quality Assessment Program - Field Investigation Report* (WESTON, April 1993). The data for select of interest (i.e., compounds that have been detected at concentrations exceeding applicable screening criteria) have been summarized in **Attachment J** to this report and have been evaluated below in **Section 8.7** as well.

8.0 GROUNDWATER TREND EVALUATION

The following sections provide a comprehensive evaluation of observed groundwater trends on an individual SWMU basis. It should be noted that the site monitoring well sampling dates and analyses have varied historically as previously discussed in **Section 7.1.3**. MHB and NAT wells have the greatest temporal data set available, while newer wells (i.e., SDB and VFSP) were first sampled in 2007 following installation.

8.1 Eastern and Western Whitewater Lagoons (WWL) – SWMUs #3 and #4

Available groundwater data for the WWL wells previously provided in the 2005 *Phase I/II RFI Report* and the 2007 *Phase III SISR* are further discussed here along with the 2011 groundwater data results. The data for select compounds of interest (i.e., compounds that have exceedances of applicable screening criteria) have been summarized in the groundwater trending tables included as **Attachment J** to this report as well.

The following VOCs have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- T-Butanol (ranging from 30 J µg/L to 590 ug/L) – Tapwater RSL exceedances;
- Diethyl ether (ranging from 810 ug/L to 8,200 ug/L) – Tapwater RSL exceedances; and
- Methylene chloride (ranging from 8.6 ug/L to 11 ug/L) – MCL exceedances.

In the case of wells WWL-2 and WWL-3L, t-Butanol concentrations have decreased since the 2002 sampling event. T-Butanol concentrations detected in WWL-1 have

essentially remained stable. Only in the case of WWL-3U, immediately downgradient of the MHB, was an increase in t-Butanol observed over time; however, the concentration is relatively low (30 ug/L) when compared to detections in the other wells.

Diethyl ether has been detected at concentrations exceeding the adjusted Tapwater RSL of 730 ug/L in wells WWL-3L and WWL-3U since 2002. Concentrations detected in WWL-3L have remained stable since 2007. The concentrations detected in WWL-3U have decreased an order of magnitude since 2002 and the most recent result (810 ug/L) from the 2011 sampling event is below the non-adjusted Tapwater RSL of 7,300 ug/L.

Methylene chloride was detected in 2001 at concentrations that exceed the MCL of 5 ug/L. However, since 2007, methylene chloride has not been detected in any of the WWL wells.

The following SVOCs and alcohol/glycol have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- 1,4-dioxane (ranging from 3.2 ug/L to 33 ug/L) – Tapwater RSL exceedances;
- Bis(2-chloroethyl) ether (0.55 J ug/L detected in WWL-3L only) – Tapwater RSL exceedance;
- Methanol (1,900 ug/L detected in WWL-3L only) – Tapwater RSL exceedance.

1,4-dioxane has been detected in wells WWL-3L and WWL-3U at concentrations exceeding the current Tapwater RSL since 2007. However, since 2007, concentrations have decreased in these two wells and in the case of WWL-3U, by an order of magnitude. Bis(2-chloroethyl) ether was detected at a concentration exceeding the current Tapwater RSL in well WWL-3L in 2002. However, the compound was not detected in any of the WWL wells in 2007 or 2011. Methanol was detected in WWL-3L in 2007 at a concentration exceeding the adjusted Tapwater RSL of 1,800 ug/L, but the concentration decreased to non-detect status in 2011.

The following inorganic compounds have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- Barium (2,100 ug/ detected in WWL-2 only) – MCL exceedance;
- Cobalt (ranging from 2.1 ug/L to 110 ug/L) – Tapwater RSL exceedances;
- Iron (ranging from 440 ug/L to 183,000 ug/L) – Tapwater RSL exceedances;

- Manganese (ranging from 1,500 ug/L to 31,000 ug/L) – Tapwater RSL exceedances; and

- Thallium (5.2 B J ug/L and 13 J ug/L) – MCL exceedances.

Barium was detected in well WWL-2 in 2011 at a concentration that exceeds the MCL of 2,000 ug/L. All other barium detections in 2011 and previous years were below the MCL. Cobalt has historically been detected at concentrations exceeding the current adjusted Tapwater RSL of 1.1 ug/L. However, concentrations have generally remained stable and in the case of wells WWL-3L and WWL-3U, decreased over time. It should be noted that all of the historical cobalt concentrations in WWL-1 have been below the non-adjusted Tapwater RSL of 11 ug/L.

Iron and manganese have historically been detected in all WWL wells at concentrations exceeding their respective adjusted and non-adjusted Tapwater RSLs. In most cases, concentrations have remained stable since 2002. Slight increases in iron have been observed in wells WWL-1, WWL-2 and WWL-3U and for manganese in well WWL-2. It should be noted; however, that the iron concentrations detected in WWL-2 have all been less than the non-adjusted Tapwater RSL of 26,000 ug/L.

In 2002, thallium was detected at concentrations exceeding its MCL in wells WWL-2 and WWL-3U. However, since 2002, no additional exceedances have occurred.

8.2 Old Landfill and Landfill #156 (LF) – SWMU #5

Available groundwater data for the LF wells previously provided in the 2005 *Phase I/II RFI Report* and the 2007 *Phase III SISR* are further discussed here along with the 2011 groundwater data results. The data for select compounds of interest (i.e., compounds that have exceeded applicable screening criteria) have been summarized in the groundwater trending tables as **Attachment J** to this report as well.

The following VOCs have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- T-Butanol (ranging from 12 µg/L to 7,500 B D ug/L) – Tapwater RSL exceedance;

- Methylene chloride (ranging from 7.6 µg/L to 10 ug/L) – MCL exceedance; and

- 1,1-dichloroethane (2.4 µg/L detected in LF-1 only) – Tapwater RSL exceedance.

T-Butanol concentrations have decreased slightly over time in wells LF-1, LF-3 and LF-4. Concentrations detected in 2007 and 2011 in wells LF-2 and LF-5 have

generally remained stable and do not significantly exceed the Tapwater RSL of 12 ug/L.

In 2002, methylene chloride was detected in all wells with the exception of LF-1 at concentrations greater than the MCL of 5 ug/L. However, in 2007 and 2011, all methylene chloride results for the LF wells have been non-detect. 1,1-dichloroethane was detected in LF-1 in 2011 at a concentration of 2.4 ug/L which is equal to the Tapwater RSL for the compound. All other results were below the Tapwater RSL or were non-detect.

The following SVOC and alcohol/glycol have historically been detected at concentrations that exceed current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- 1,4-dioxane (ranging from 0.83 J µg/L to 84 J ug/L) – Tapwater RSL exceedance; and

- Methanol (2,600 µg/L detected in LF-2 only) – Tapwater RSL exceedance.

1,4-dioxane has been historically detected in wells LF-1, LF-3 and in LF-5 (2011 only) at concentrations that exceed the current Tapwater RSL of 0.67 ug/L. Concentrations are generally low and have remained stable or, in the case of LF-3, decreased slightly over time. Methanol has historically not been detected in the LF wells. However, in 2011, methanol was detected in LF-2 at a concentration exceeding the adjusted Tapwater RSL of 1,800 ug/L. The detected concentration (2,600 ug/L) is below the non-adjusted Tapwater RSL of 18,000 ug/L.

The following inorganic compounds have historically been detected at concentrations that exceed current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- Cadmium (6.4 µg/L detected in LF-2 only) – MCL exceedance;

- Cobalt (ranging from 5.9 ug/L to 24 B ug/L in LF-3 only) – Tapwater RSL exceedance;

- Iron (ranging from 4,000 ug/L to 10,000 ug/L) – Tapwater RSL exceedance; and

- Manganese (ranging from 260 ug/L to 10,900 ug/L) – Tapwater RSL exceedance.

An isolated cadmium MCL exceedance was detected in well LF-2 during the 2011 site-wide sampling event. All other LF wells have typically exhibited low concentrations of cadmium with mostly non-detected results.

Cobalt has been detected at concentrations exceeding the adjusted and non-adjusted Tapwater RSLs in well LF-3 only. Concentrations detected in the other wells remain below the adjusted Tapwater RSL of 1.1 ug/L. The concentrations detected in LF-3 are generally low and have remained relatively stable since 2002.

Iron and manganese have historically exhibited Tapwater RSL exceedances in most LF wells. However, the concentrations do not appear to be increasing over time. In addition, all of the detected iron concentrations are less than the non-adjusted Tapwater RSL of 26,000 ug/L.

8.3 Natrosol Lagoon (NAT) – SWMU #7

Available groundwater data from the NAT wells previously provided in historical and the 2007 *Phase III SISR* are further discussed here along with the 2011 groundwater data results. The data for select compounds of interest (i.e., those that have exhibited screening criteria exceedances) have been summarized in the groundwater trending tables as **Attachment J** to this report as well.

The following VOCs have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- T-Butanol (ranging from 137 µg/L to 176,000 ug/L) – Tapwater RSL exceedances; and
- TCE (ranging from 3.2 µg/L to 28 ug/L) – Tapwater RSL and MCL exceedances.

T-Butanol has historically been detected in all NAT wells since the mid-1990s. In general, concentrations detected in NAT-2 and NAT-3 have remained stable for most of that time period. NAT-4 has exhibited slightly more fluctuation historically than other wells but has shown a two orders of magnitude decrease in concentration since 2000. NAT-1 decreased to non-detect status in 2007 and 2011 as well.

TCE has only been analyzed for in the NAT wells since 2007. TCE has been detected at concentrations in NAT-1 that exceed the MCL of 5 ug/L, with a slight increase in concentration in 2011. Well NAT-2 exhibited a slight increase in TCE concentration in 2011 as well but the detected concentration (3.2 ug/L) is below the MCL. TCE has not been detected in NAT-3 or NAT-4, which suggests that the source of TCE is relatively weak and is not resulting in widespread groundwater impacts.

The following SVOC and alcohol/glycol have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- 1,4-dioxane (ranging from 1.5 J µg/L to 14 ug/L) – Tapwater RSL exceedances; and

- Methanol (4,400,000 L ug/L detected in NAT-2 only) – Tapwater RSL exceedance.

1,4-dioxane and methanol have only been analyzed for in the NAT wells since 2007. Tapwater RSL exceedances of 1,4-dioxane have been detected in wells NAT-2 and NAT-3 since 2007. However, these concentrations have remained relatively stable and have, in fact, exhibited a slight decrease.

Methanol has typically not been detected in any of the NAT wells. In 2011, however, methanol was detected at a concentration of 4,400,000 L ug/L in NAT-2, well above the Tapwater RSL of 1,800 ug/L. All other results were non-detect.

The following inorganics have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- Aluminum (44,000 ug/L detected in NAT-4 only) – Tapwater RSL exceedance;

- Arsenic (15 ug/L detected in NAT-4 only) – MCL exceedance;

- Cobalt (ranging from 2.3 ug/L to 78 ug/L) – Tapwater RSL exceedances;

- Iron (ranging from 3,000 ug/L to 54,000 ug/L) – Tapwater RSL exceedances;

- Lead (34 ug/L detected in NAT-4 only) – MCL exceedance;

- Manganese (ranging from 120 ug/L to 2,800 ug/L) – Tapwater RSL exceedances;

- Vanadium (130 ug/L detected in NAT-4 only) – Tapwater RSL exceedance; and

- Nitrate as N (10,000 ug/L and 13,000 ug/L detected in NAT-1 only) – MCL exceedances.

In 2011, aluminum was detected in NAT-4 at a concentration that exceeds the adjusted and non-adjusted Tapwater RSLs of 3,700 ug/L and 37,000 ug/L, respectively. Due to elevated turbidity in the sample collected from NAT-4, a filtered sample was collected. The dissolved aluminum result was 170 ug/L, well below the adjusted Tapwater RSL.

In 2011, arsenic was detected at a concentration of 15 ug/L, above the MCL of 10 ug/L. As previously stated, due to elevated turbidity in the NAT-4 sample, a filtered

sample was collected as well. The dissolved arsenic result was 2.6 ug/L which is less than the MCL.

Cobalt has been detected at concentrations exceeding the adjusted and non-adjusted Tapwater RSLs of 1.1 ug/L and 11 ug/L in all of the NAT wells. However, concentrations have remained relatively stable in NAT-2 and NAT-3. Slightly more fluctuation in concentrations has been observed in NAT-1 and NAT-4.

Iron has been detected in all wells except NAT-1 at concentrations exceeding the adjusted Tapwater RSL of 2,600 ug/L since 2007. However, the concentrations have remained stable over time and only the 2011 iron concentration detected in NAT-4 exceeds the non-adjusted Tapwater RSL of 26,000 ug/L.

Manganese concentrations have been detected in all wells at concentrations exceeding the adjusted Tapwater RSL of 88 ug/L. Only concentrations detected in NAT-1 and NAT-3 have exceeded the non-adjusted Tapwater RSL of 880 ug/L. With the exception of NAT-1, the concentrations have remained relatively stable over time. The manganese concentration in NAT-1 increased by an order of magnitude from 2007 to 2011.

In 2011, lead and vanadium were detected in NAT-4 at concentrations exceeding their MCL of 15 ug/L and adjusted Tapwater RSL of 18 ug/L, respectively. However, the filtered sample results for lead and vanadium were 0.26 J ug/L and 5 J ug/L, respectively, which are both less than their respective MCL and Tapwater RSL.

Nitrate as N was detected in NAT-1 at concentrations exceeding the MCL in 2007 and 2011. Nitrate is commonly detected in groundwater and is considered environmentally insignificant.

8.4 Reten/Aqualon Basin (RAB) – SWMUs #8 and #29

Available groundwater data from the RAB wells previously provided in the 2005 *Phase I/II RFI Report* and the 2007 *Phase III SISR Report* are further discussed here along with the 2011 groundwater data results. The data for select compounds of interest (i.e., compounds that have exhibited exceedances of applicable screening criteria) have been summarized in the groundwater trending tables included as **Attachment J** to this report as well.

The following VOC has been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- T-Butanol (ranging from 30 ug/L to 560 ug/L) – Tapwater RSL exceedances.

The highest concentration of t-Butanol was observed in 2007 in RAB-MW2 (560 µg/L), which is situated off the southwestern corner of the former basin. The 2011 concentration of t-Butanol in RAB-MW2 decreased to 160 ug/L. The t-butanol

concentration in RAB-MW3 increased slightly from 60 ug/L in 2007 to 270 ug/L in 2011. However, the t-Butanol concentrations in RAB-MW4 decreased from 30 ug/L in 2007 to non-detect in 2011. The results observed during the 2001 Phase I assessment activities were non-detect for all three RAB wells sampled; however, the associated RLs and MDLs were greater than the current Tapwater RSL. Monitoring well RAB-MW1 does not have any groundwater data associated with it because it historically has not produced enough water to collect samples.

No SVOCs have been detected at concentrations that exceed applicable Tapwater RSLs or MCLs.

Totals and dissolved metals analytical results were provided for the RAB wells in 2007 due to field filtering of high turbidity samples. However, only totals data results are listed here for screening purposes. When compared to current (June 2011) screening levels, the following Tapwater RSL and/or MCL exceedances were observed. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- Aluminum (8,000 µg/L detected in well RAB-MW3 only in 2011) – Tapwater RSL exceedance;
- Cobalt (ranging from 2.5 J ug/L to 120 J ug/L) – Tapwater RSL exceedances;
- Iron (ranging from 3,000 ug/L to 150,000 ug/L) – Tapwater RSL exceedances;
- Lead (17 ug/L and 18 ug/L detected in RAB-MW4 and RAB-MW2, respectively) – MCL exceedances;
- Manganese (ranging from 420 ug/L to 12,000 ug/L) – Tapwater RSL exceedances;
- Nickel (77 ug/L and 100 ug/L detected in RAB-MW4 and RAB-MW2, respectively);
- Thallium (10 ug/L detected in RAB-MW2 only) – MCL exceedance; and
- Vanadium (ranging from 22 B L ug/L to 95 ug/L) – Tapwater RSL exceedances.

The 2011 aluminum concentration detected in RAB-MW3 is less than the non-adjusted Tapwater RSL of 37,000 ug/L. Cobalt has historically been detected at concentrations exceeding the adjusted Tapwater RSL; however, the concentrations have generally remained stable and in some cases decreased over time, as is the case for wells RAB-MW3 and RAB-MW4. The 2011 cobalt concentrations for these two wells are below the non-adjusted Tapwater RSL of 11 ug/L.

Iron and manganese exhibited Tapwater RSL exceedances in all three (3) wells during the 2007 and 2011 sampling events. However, the concentrations of iron have decreased over time in all three wells and the concentrations of manganese have essentially remained stable since 2007. In addition, all of the manganese concentrations detected in wells RAB-MW3 and RAB-MW4 have been below the non-adjusted Tapwater RSL of 880 ug/L.

The 2007 MCL exceedances for lead were detected in the unfiltered samples collected from RAB-MW2 and RAB-MW4. Due to elevated turbidities observed during sample collection, filtered samples were also collected at the time. The filtered lead results yielded non-detect results. In addition, when unfiltered samples were collected in 2011, the lead results for RAB-MW2 and RAB-MW4 were 0.68 J ug/L and 1.5 ug/L, respectively, well below the MCL of 15 ug/L.

The 2007 nickel adjusted Tapwater RSL exceedance detected in RAB-MW2 decreased to 68 ug/L in 2011, below the Tapwater RSL. Similarly, the 2007 exceedance detected in RAB-MW4 decreased to 51 ug/L in 2011 which is below the adjusted Tapwater RSL as well. The thallium MCL exceedance observed in well RAB-MW2 in 2001 has decreased to non-detect status in 2011.

Vanadium concentrations detected in wells RAB-MW2 and RAB-MW4 decreased by an order of magnitude from 2007 to 2011 with concentrations now below the adjusted Tapwater RSL of 18 ug/L. An order of magnitude increase was observed in well RAB-MW3 in 2011; however the analytical result (26 ug/L) remains less than the non-adjusted Tapwater RSL of 180 ug/L.

8.5 Sludge Drying Beds (SDB) – SWMU #14

Available groundwater data for the SDB wells previously provided in the 2007 *Phase III SISR* are further discussed here along with the 2011 groundwater data. The data for select compounds of interest (i.e., compounds that have exceeded applicable screening criteria) have been summarized in the groundwater trending tables included as **Attachment J** to this report as well.

The following VOC has been detected at a concentration that exceeds the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- T-butanol (790 ug/L detected in SDB-MW3 only) – Tapwater RSL exceedance.

During the 2007 sampling event, t-Butanol was not detected in any of the SDB wells at concentrations that exceeded the applicable screening criteria. However, in 2011, the t-butanol concentration detected in SDB-MW3 was 790 ug/L, which exceeds the Tapwater RSL of 12 ug/L. Given the lack of t-butanol detected in soils from the SDB samples, coupled with the fact that SDB-MW3 is situated downgradient from the

MHB, it is likely that the detection is a result of groundwater migration from an upgradient source.

In 2007, no SVOCs were detected. Therefore, SVOCs were not analyzed for in 2011 due to a lack of any detection in 2007.

The following inorganic compounds have exhibited Tapwater RSL and/or MCL exceedances from 2007 and 2011. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- Aluminum (9,800 ug/L and 13,000 ug/L detected in SDB-MW1 only) – Tapwater RSL exceedances;
- Chromium (160 ug/L detected in SDB-MW1 only) – MCL exceedance;
- Cobalt (ranging from 4.5 ug/L to 14 ug/L) – Tapwater RSL exceedances;
- Iron (190,000 ug/L and 230,000 ug/L detected in SDB-MW1 only) – Tapwater RSL exceedances;
- Lead (26 ug/L detected in SDB-MW1 only) – MCL exceedance;
- Manganese (ranging from 1,100 ug/L to 2,300 ug/L) – Tapwater RSL exceedances;
- Nickel (95 ug/L detected in SDB-MW1 only) – Tapwater RSL exceedance; and
- Vanadium (27 ug/L and 45 ug/L detected in SDB-MW1 only) – Tapwater RSL exceedances.

Aluminum concentrations detected in SDB-MW1 exceeded the adjusted Tapwater RSL in 2007 and 2011; however, both concentrations are below the non-adjusted Tapwater RSL of 37,000 ug/L. The isolated chromium MCL exceedance detected in 2011 occurred in SDB-MW1, which is situated at the northern end of the drying beds, nearest in proximity to the MHB.

Cobalt has historically been detected at concentrations exceeding the adjusted Tapwater RSL of 1.1 ug/L; however, the concentrations have generally remained stable over time. In addition, all but one of the detected concentrations are less than the non-adjusted Tapwater RSL of 11 ug/L. Iron has been detected in SDB-MW1 at concentrations exceeding the current adjusted and non-adjusted Tapwater RSL but the concentrations have remained relatively stable since 2007.

In 2007, lead was detected in the unfiltered SDB-MW1 sample at a concentration that exceeded its MCL of 15 ug/L. Due to elevated turbidity in the sample, a filtered sample was collected in the field. The filtered lead result for SDB-MW1 was 1.3 J

ug/L, well below the MCL. In addition, the unfiltered lead result for the sample collected in 2011 was 9.8 ug/L, also below the MCL.

Manganese has been detected at concentrations exceeding the adjusted and non-adjusted Tapwater RSL in all SDB wells but concentrations have remained stable over time. Nickel was detected in well SDB-MW1 in 2011 at a concentration exceeding the adjusted Tapwater RSL of 73 ug/L. However, the detected result is less than the non-adjusted Tapwater RSL of 730 ug/L. All other nickel results in 2007 and 2011 were below the screening criteria.

Vanadium was detected in well SDB-MW1 in 2007 and 2011 at concentrations that exceed the adjusted Tapwater RSL of 18 ug/L. However, both of the results are below the non-adjusted Tapwater RSL of 180 ug/L. All other vanadium results for the SDB wells have been non-detect or below the adjusted Tapwater RSL

8.6 Vacuum Filter Sludge Pile (VFSP) – SWMU #15

Available groundwater data for the VFSP well previously provided in the 2007 *Phase III SISR* are further discussed here along with the 2011 groundwater data. The data for select compounds of interest (i.e., compounds that exceeded applicable screening criteria) have been summarized in the groundwater trending tables included as **Attachment J** to this report as well.

No VOCs, SVOCs or alcohol/glycols have been detected at concentrations that exceed applicable screening criteria.

The following inorganic compounds have exhibited Tapwater RSL and/or MCL exceedances from 2007 and 2011. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- Cobalt (2.2 ug/L and 2.5 ug/L detected in 2011 and 2007, respectively) – Tapwater RSL exceedances;
- Iron (3,900 ug/L and 4,300 ug/L detected in 2011 and 2007, respectively) – Tapwater RSL exceedances; and
- Manganese (750 ug/L and 760 ug/L detected in 2007 and 2011, respectively) – Tapwater RSL exceedances.

Cobalt, iron and manganese were detected in 2007 and 2011 at concentrations exceeding their respective Tapwater RSLs. Although the detections exceed applicable criteria, the concentrations have remained very stable over time. In addition, the detected concentrations for these three compounds are all less than their respective non-adjusted Tapwater RSLs.

8.7 Main Holding Basin Wells (MHB)

Available groundwater data for the MHB wells previously provided in the 2007 *Phase III SISR* are further discussed here along with the 2011 groundwater data. Historical data sets made available in the *Groundwater Quality Assessment Program* (WESTON, February 1992) and the *Groundwater Quality Assessment Program Field Investigation Report* (WESTON, April 1993) have been included in the evaluation as well. The data for select compounds of interest (i.e., compounds that have exceeded applicable screening criteria) have been summarized in the groundwater trending tables included as **Attachment J** to this report as well.

The following VOCs have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- T-butanol (ranging from 87 ug/L to 6,700 ug/L) – Tapwater RSL exceedances;
- Diethyl ether (ranging from 760 ug/L to 57,900 ug/L) – Tapwater RSL exceedances;
- 1,1,2,2-tetrachloroethane (0.5 J ug/L and 0.96 J ug/L detected in MW-10 only) – Tapwater RSL exceedances;
- Tetrachloroethene (13 ug/L and 22 ug/L detected in MW-10 only) – MCL exceedances; and
- TCE (ranging from 2.1 ug/L to 9.4 J ug/L) – MCL and Tapwater RSL exceedances.

The majority of the sixteen (16) MHB wells have exhibited detections of t-Butanol and diethyl ether at concentrations above current Tapwater RSLs. The exception to this statement would be the upgradient well couplet (MW-7U/7L) and MW-10. MW-10 is located across a hydraulic divide (West Bear Creek). The organic compounds appear to be contained to the upper sand, as the one well (that could be sampled) screened in the lower sand (MW-8D) did not have any detections of t-Butanol or diethyl ether; MW-5D revealed a similar trend based upon the 1992 historical data. Limited temporal data is available for t-Butanol for comparison purposes. More data were available for diethyl ether (as shown in **Attachment J**) and results indicate that diethyl ether concentrations in the MHB wells have generally remained stable over time (early 1990s to 2011). In addition, only the concentrations detected in well MW-2 exceeded the non-adjusted diethyl ether Tapwater RSL of 7,300 ug/L in the 2011 data.

Isolated Tapwater RSL exceedances of 1,1,2,2-tetrachloroethane have been observed in well MW-10. The 1,1,2,2-tetrachloroethane results for all the other MHB wells have been non-detect. Similarly, isolated tetrachloroethene MCL exceedances have

been observed in MW-10. No other MHB wells exhibited tetrachloroethene detections.

Although TCE was detected in monitoring well MW-9 in 2007 at a concentration exceeding its MCL, the 2011 TCE result for that well was non-detect.

The following SVOCs and alcohol/glycol have historically been detected at concentrations that exceed the current Tapwater RSLs and/or MCLs. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- 1,4-Dioxane (ranging from 1.2 J ug/L and 24 ug/L) – Tapwater RSL exceedances;
- Bis(2-chloroethyl) ether (0.22 J ug/L detected in MW-2 only) – Tapwater RSL only;
- Bis(2-ethylhexyl) phthalate (8 ug/L detected in MW-7U only) – MCL exceedance;
- Naphthalene (0.18 J ug/L detected in MW-7U only) – Tapwater RSL exceedance; and
- Methanol (ranging from 1,900 ug/L to 160,000 ug/L) – Tapwater RSL exceedances.

1,4-dioxane concentrations have exceeded the Tapwater RSL in the majority of the MHB wells during the 2007 and 2011 groundwater sampling events. Concentrations have generally remained stable, are within the same order of magnitude, or increased slightly over time (2007 to 2011). The other SVOCs [bis(2-chloroethyl)ether, bis(2-ethylhexyl)phthalate and naphthalene] have exhibited isolated exceedances in wells MW-2 and MW-7U. Bis(2-chloroethyl)ether concentration was detected in MW-2 in 2011. No other bis(2-chloroethyl)ether concentrations have been detected. Similarly, naphthalene was detected in MW-7U in 2011 at a concentration exceeding its Tapwater RSL. However, no other wells have exhibited concentrations of naphthalene.

Bis(2-ethylhexyl)phthalate was detected in MW-7U in 1990 at a concentration that exceeds the MCL of 6 ug/L. This compound has not been detected in MW-7U since 1990 or in any other MHB wells. Methanol was detected in seven wells (between the 2007 and 2011 sampling events) at concentrations exceeding the adjusted Tapwater RSL. However, only two of the concentrations exceed the non-adjusted Tapwater RSL of 18,000 ug/L.

The following inorganic compounds have exhibited Tapwater RSL and/or MCL exceedances from 2007 and 2011. If a compound exceeded a Tapwater RSL but was less than its MCL, it was not listed below as an exceedance:

- Aluminum (4,700 ug/L detected in MW-8U only) – Tapwater RSL exceedance;
- Arsenic (ranging from 10 ug/L to 46 ug/L) – MCL exceedances;
- Cadmium (9.6 ug/L and 11 ug/L detected in MW-7U) – MCL exceedances;
- Chromium (134 ug/L and 510 ug/L detected in MW-1 and MW-4U, respectively) – MCL exceedances;
- Cobalt (ranging from 1.1 ug/L to 440 J ug/L) – Tapwater RSL exceedances;
- Iron (ranging from 3,100 ug/L to 410,000 ug/L) – Tapwater RSL exceedances;
- Manganese (ranging from 220 ug/L to 48,000 ug/L) – Tapwater RSL exceedances;
- Nickel (ranging from 73 ug/L to 130 ug/L) – Tapwater RSL exceedances; and
- Vanadium (240 ug/L and 1,700 ug/L detected in MW-5U only) – Tapwater RSL exceedances.

Since re-screening all available data against June 2011 RBSLs, five (5) wells (MW-2, MW-3, MW-5U, MW-8U, and MW-8L) have reported arsenic detections above the MCL and one (1) well (MW-7U) exhibited cadmium above the MCL. The arsenic exceedances could be a result of the dissolution of naturally occurring arsenic due to the reducing conditions (low ORP) in the upper aquifer adjacent to the MHB. The cadmium exceedances (2007 and 2011) were observed in the upgradient well (MW-7U) and are not considered to be associated with the MHB. Review of remaining inorganic data indicates that aluminum, cadmium, chromium, cobalt, iron, manganese, nickel and vanadium exhibited exceedances of the screening criteria in 2007 and 2011. None of the remaining compounds are considered COCs for the MHB or the overall Facility.

"Source" material (i.e., wastewater and sludge) associated with the MHB has long been removed; therefore, residual groundwater impacts that remain are expected to continue to degrade and decrease over time.

9.0 GEOCHEMICAL EVALUATION

As previously presented in **Section 3.5**, in April and May 2011, Hercules conducted geochemical sampling of soil and groundwater at the site in order to understand the aquifer geochemistry as it pertains to biodegradation of organic contaminants at the site. A conceptual geochemical model was developed in order to evaluate the

occurrence of biodegradation and natural attenuation of organics in the subsurface. Mr. Bill Deustch of Geochemistry Services LLC performed the evaluation of collected soil and groundwater data. The Hopewell Site Geochemical Characterization and Model has been included as **Attachment G** to this report.

9.1 Geochemistry of Organic Compound Biodegradation

As documented in **Attachment G** as well as throughout this report**,** the predominant organics in groundwater at the site consist of t-Butanol, diethyl ether, ethanol and methanol. Organic compounds such as these can be transformed from one species to another organic species or to inorganic carbon (carbonate species) by naturally occurring microorganisms that utilize the contaminants for food or energy production. For example, in an oxidizing geochemical environment, petroleum hydrocarbons are known to effectively biodegrade because the fuel compounds serve as electron donors for microbial metabolism. Conversely, in a reducing environment, chlorinated organic compounds are more effectively transformed because they can be used by microorganisms as electron acceptors. The alcohols (t-Butanol, ethanol and methanol) and ether (diethyl ether) found in groundwater associated with the site will be primarily biodegraded by microorganisms that utilize the compounds as electron donors. As such, the microorganisms require an electron acceptor (oxidizing agent) to complete the biogeochemical reaction. The necessary oxidizing agents are generally available in shallow aquifer systems.

In order to evaluate whether or not biodegradation is occurring at the site is to quantify decreases in dissolved concentrations of oxidizing agents and increases in reaction byproducts. Biodegradation would result in decreases in dissolved oxygen, nitrate and sulfate with increases in dissolved ammonium, manganese, iron, hydrogen sulfide and methane depending on the degree that the redox potential is lowered by these reactions.

9.2 Sampling and Analysis

As previously indicated in this report, groundwater samples were collected from ten (10) site monitoring wells in order to evaluate the occurrence of biodegradation in the vicinity of the MHB at the site and to better understand the geochemical processes occurring in the aquifer. In addition, at the locations of three (3) of the sampled monitoring wells, solid samples were collected to quantify the presence of reducible iron and manganese oxyhydroxides that are potential oxidizing agents. The following monitoring wells were chosen for geochemical sampling:

- MW-1, -2, -3, -4, -4U, -5, -5U, -8U, -8D; and
- SDB-MW2.

Groundwater from each of the monitoring wells was sampled and analyzed for a wide range of parameters, including field measurements of temperature, pH, ORP,

dissolved oxygen, specific conductance and turbidity as well as laboratory analysis of major ions, metals and minor constituents previously outlined in Section 3.5.1.1.

The solid phase samples were collected near monitoring wells MW-4, MW-8 and SDB-MW2 as shown on **Figure 4** of this report. The samples were collected within the monitoring well screen intervals to allow for comparison of groundwater composition with the associated aquifer solid phase composition. The concentrations of iron and manganese oxidizing agents in the solid phase were estimated using a modified European Community Bureau of Reference (BCR) selective extraction process to preferentially dissolve the iron and manganese oxyhydroxides in the samples.

More detailed information regarding the sample analysis and model calculations used with the groundwater data is included in **Attachment G**.

9.3 Discussion of Results

In summary, the occurrence of elevated iron, manganese, ammonium and sulfide concentrations in groundwater and the low redox potential and molecular oxygen concentrations detected provide strong evidence of active biodegradation of organic compounds in the shallow aquifer. The ability of the aquifer to continue the biodegradation process is dependent on the presence of oxidizing agents in the system, particularly solid phase oxidants like reducible iron and manganese minerals.

The results of the BCR selective extraction process indicate that the amount of iron and manganese oxidizing agent present in the aquifer solid phase is large. In order to compare the solid phase concentrations to groundwater concentrations of organic compounds in contact with the sediment, the detected solid phase concentration as to be converted from mg/kg-sediment to mg/L-water. As described in **Attachment G**, the reactive iron and manganese concentrations present in the sediment appear to be capable of oxidizing the organic compound concentrations detected in groundwater. Significant concentrations of these solid phase oxidizing agents are present in the aquifer to support biodegradation of organic contaminants at the site.

9.4 Conceptual Geochemical Model of Biodegradation

A geochemical model is a representation of a site in terms of water/rock processes that produce the observed groundwater and solid phase compositions. In the case of this site, the focus of the model is the geochemical processes that participate in and enhance the progress of biodegradation of organic compounds.

Because of the comingling of plumes in the vicinity of the MHB, it is not possible to evaluate the typical evolution of biodegradation processes along a flowpath from source. The geochemical evolution of biodegradation typically progresses from strongly oxidizing, aerobic conditions at the upgradient edge of the source of organic contamination, to strongly reducing, anaerobic conditions in the core of the plume at the source area, and then to a return to more oxidizing conditions downgradient of the

source as the residual plum mixes with unimpacted, oxidizing groundwater in the aquifer. Although this evolution cannot be characterized at the MHB because of multiple contaminant sources, it is apparent from the measurement of geochemical parameters in the groundwater adjacent to the MHB that biodegradation is occurring.

Microorganisms are utilizing naturally occurring dissolved oxygen, nitrate and sulfate and solid phase iron and manganese oxyhydroxide minerals to oxidize some of the organic contaminants. The results are a reduced redox potential, low levels of dissolved molecular oxygen and nitrate in the plume, and relatively high dissolved levels of the reaction byproducts ammonium, sulfide, iron and manganese. The measured sediment concentration of reducibly iron oxyhydroxide minerals shows that the sediment has an appreciable oxidation capacity to continue biodegradation reactions. Although biodegradation reactions involving the organic contaminants are occurring in the aquifer, they are apparently not sufficient to eliminate contaminants from groundwater because of the continuing measurements of these contaminants in groundwater in the vicinity of the MHB. However, given the documented lack of unacceptable risks to human health and the environment, coupled with the fact that the dissolved concentrations are generally decreasing or remaining stable, the dissolved impacts do not appear to require any immediate action.

9.5 Conclusions

Field measurements and laboratory analytical results for the geochemical parameters show the occurrence of active biodegradation of organic compounds. Aerobic and anaerobic biodegradation reactions are occurring that result in a reduction of oxidizing agents (oxygen and nitrate in groundwater) and high levels of reduced byproducts (ammonium, sulfide, iron and manganese). Additionally, the redox potential is low in the plume showing the consumption of natural aquifer oxidizing agents by reactions with organic reducing agents. Although the organic contaminants persist in the aquifer, there are high concentrations of reducible iron oxyhydroxide minerals in the solid phase that will allow microorganisms to continue biodegradation of the organic contaminants. As discussed in **Attachment G**, the oxidizing capacity of the iron minerals in some locations of the aquifer is about 7.5 times the maximum concentration of methanol in groundwater, which is the dominant dissolved organic compound.

10.0 CONCLUSIONS AND RECOMMENDATIONS

The risk evaluations at the site were conducted for the remaining SWMUs and areas of interest (i.e., surface water bodies) by incorporating all of the site-wide validated Phase III Investigation data (along with limited Phase I Investigation data). Each SWMU and surface water body was evaluated as a discrete exposure area. The results of the human health risk assessment indicate that for all receptors and

exposure areas, the total HIs, potential cumulative cancer risks, and predicted fetal blood lead levels meet the target benchmarks.

The results of the ecological risk assessment indicate that HQs greater than 1 were calculated for each of the remaining SWMUs and surface water bodies. Although some HQs greater than 1 were calculated, the HQs are considered to be overestimated. The inclusion of multiple conservative assumptions typically results in calculated HQs that are an order of magnitude (or more) higher than would be calculated for a more realistic scenario. The uncertainty in most aspects of this ecological assessment is so high, that visual observations of habitat quality are a more useful indicator of potential adverse effects than the quantitative calculations. In general, adverse ecological hazards to terrestrial and aquatic receptors at the site were not visually observable and likely associated with disturbance to physical habitat rather than the presence of chemical constituents.

It is possible that careful habitat evaluation (through visual examination and scoring) may decrease uncertainty in the ecological risk assessment to some degree. Bottom sediments from the Eastern and Western WWLs and the NAT may warrant further visual evaluation and the completion of habitat assessment documentation, as the physical nature of the substrate likely has an adverse effect on the sustainability of macroinvertebrate populations. In addition, sediments from the VFSP may warrant further evaluation; this area indicated elevated HQs for aquatic receptors and the lowest level of biotic integrity for aquatic habitats for the site.

The results of the transfer to groundwater and groundwater trends evaluation indicate several exceedances of applicable RBSLs. However, the available groundwater data indicate that concentrations at the site are generally stable and in many cases, decreasing. Given that remaining source material at the site (i.e., sludge in the Eastern/Western WWL and VFSP) has been in place for many years, it is expected that the source strength has diminished and the groundwater concentrations are expected to continue to decrease. This hypothesis is further substantiated by the results of the 2011 geochemical evaluation in which sampling results indicated that active biodegradation of organic compounds is occurring in the aquifer. Although organic compounds persist in the aquifer, there are high concentrations of reducible iron oxyhydroxide minerals in the solid phase that will allow microorganisms to continue biodegradation of the organic contaminants at the site.

Following USEPA's review of this Final RFI Summary Report, HHRA (**Attachment A**) and BERA (**Attachment B**), these general recommendations will be refined, and specific tasks developed to fill any remaining data gaps relative to the nature and extent of environmental impacts, and the potential risks (human health and ecological) posed by each of the remaining SWMUs.

11.0 REFERENCES

Groundwater Quality Assessment Program. Prepared by Roy F. Weston, Inc., February 1992.

Groundwater Quality Assessment Program – Field Investigation Report. Prepared by Roy F. Weston, Inc., April 1993.

Facility Lead Corrective Action Agreement Workplan. Prepared by Groundwater & Environmental Services, Inc., October 2001.

Hydrogeologic Evaluation. Prepared by Groundwater & Environmental Services, Inc., June 2002.

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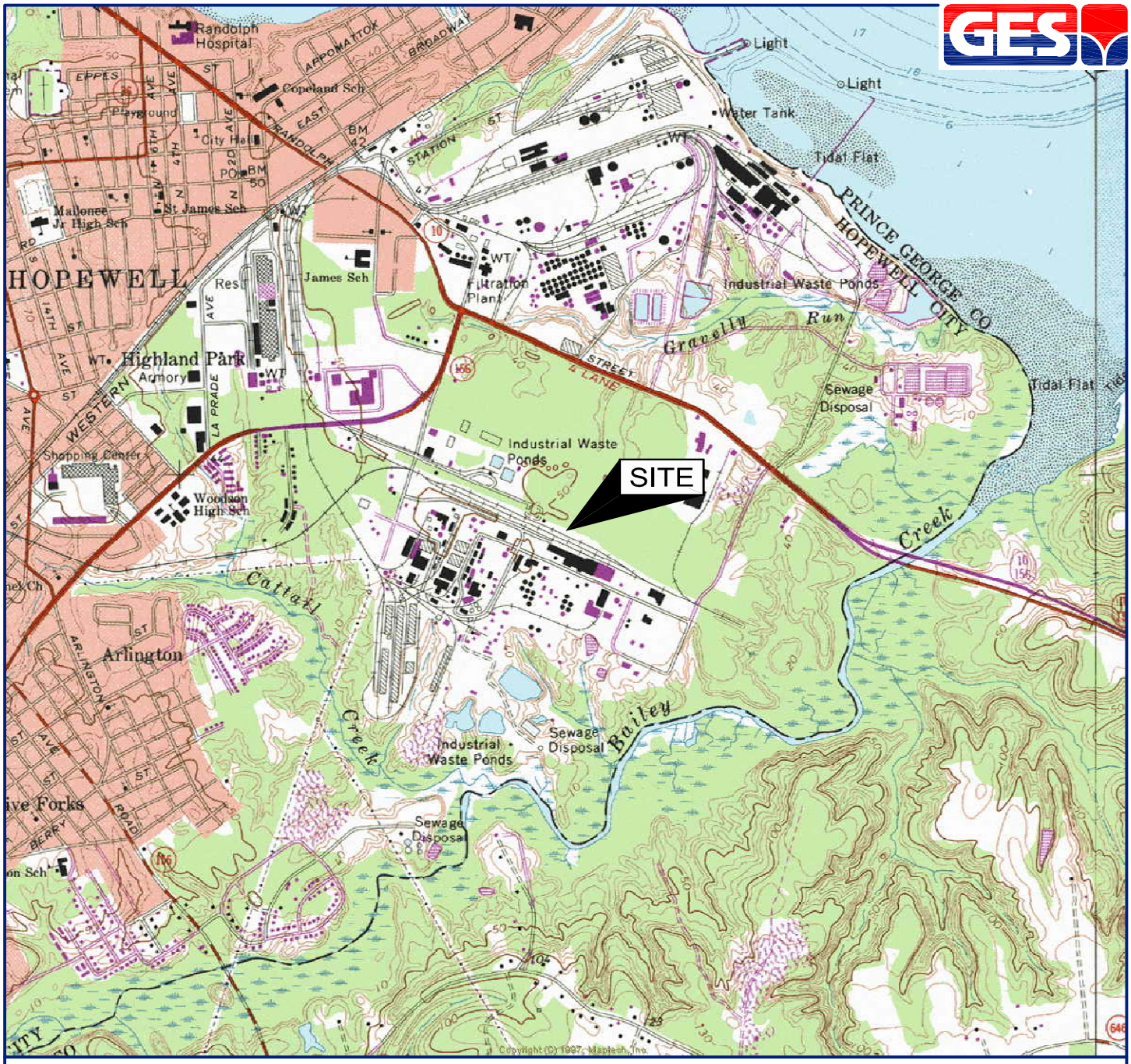
Migration of Contaminated Groundwater Under Control Environmental Indicator. Prepared by Groundwater & Environmental Services, Inc., September 2004.

RCRA Facility Investigation Report – Phase I and II Investigations. Prepared by Groundwater & Environmental Services, Inc., September 2005.

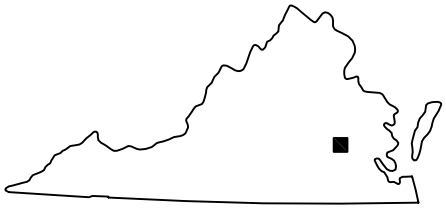
Phase III Sampling and Analysis Plan – Revision No. 1. Prepared by Groundwater & Environmental Services, Inc., April 2007.

Phase III Site Investigation Summary Report. Prepared by Groundwater & Environmental Services, Inc., November 2007.

FIGURES



SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1987
HOPEWELL, VIRGINIA
CONTOUR INTERVAL = 10'

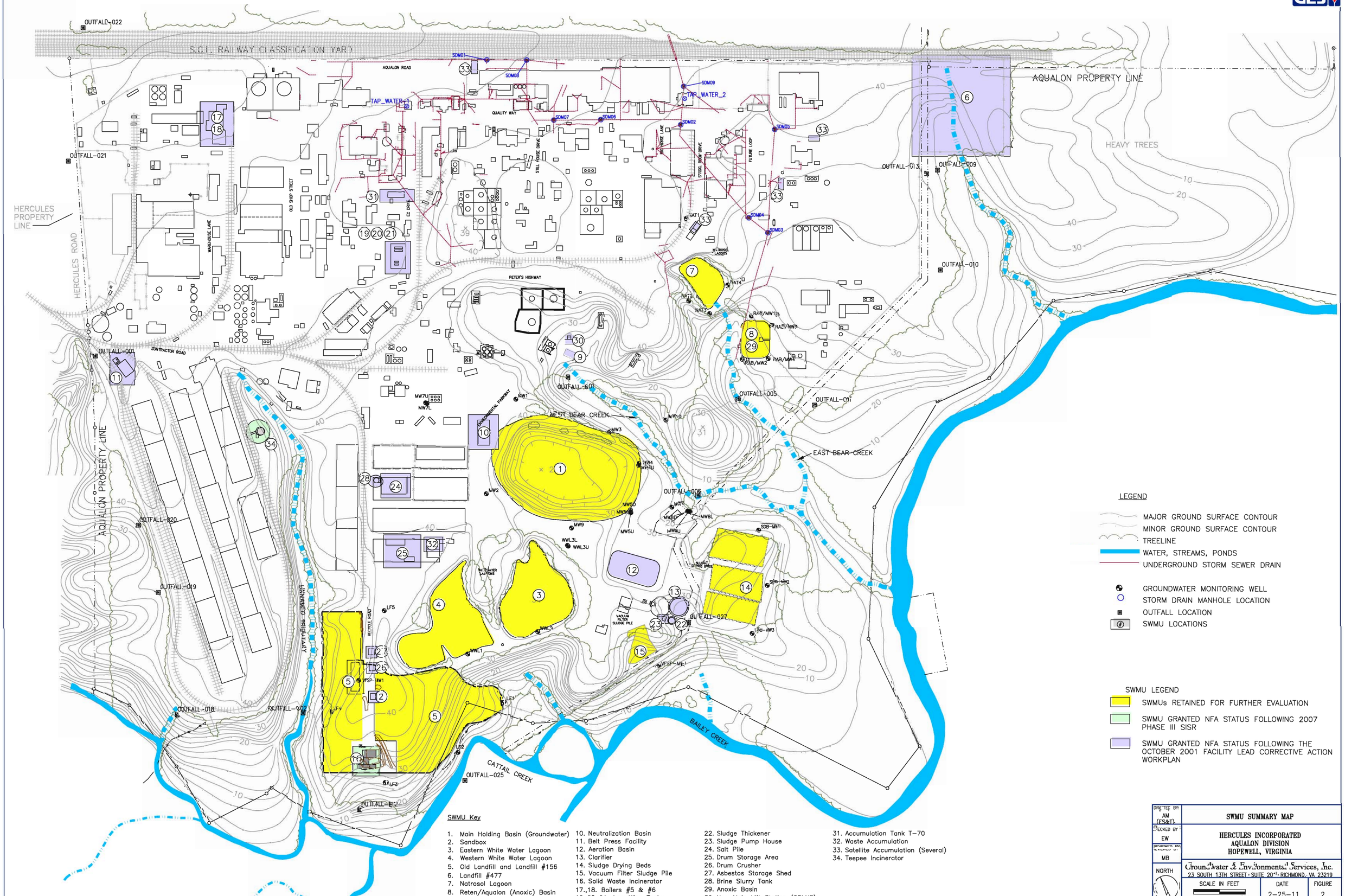


QUADRANGLE LOCATION

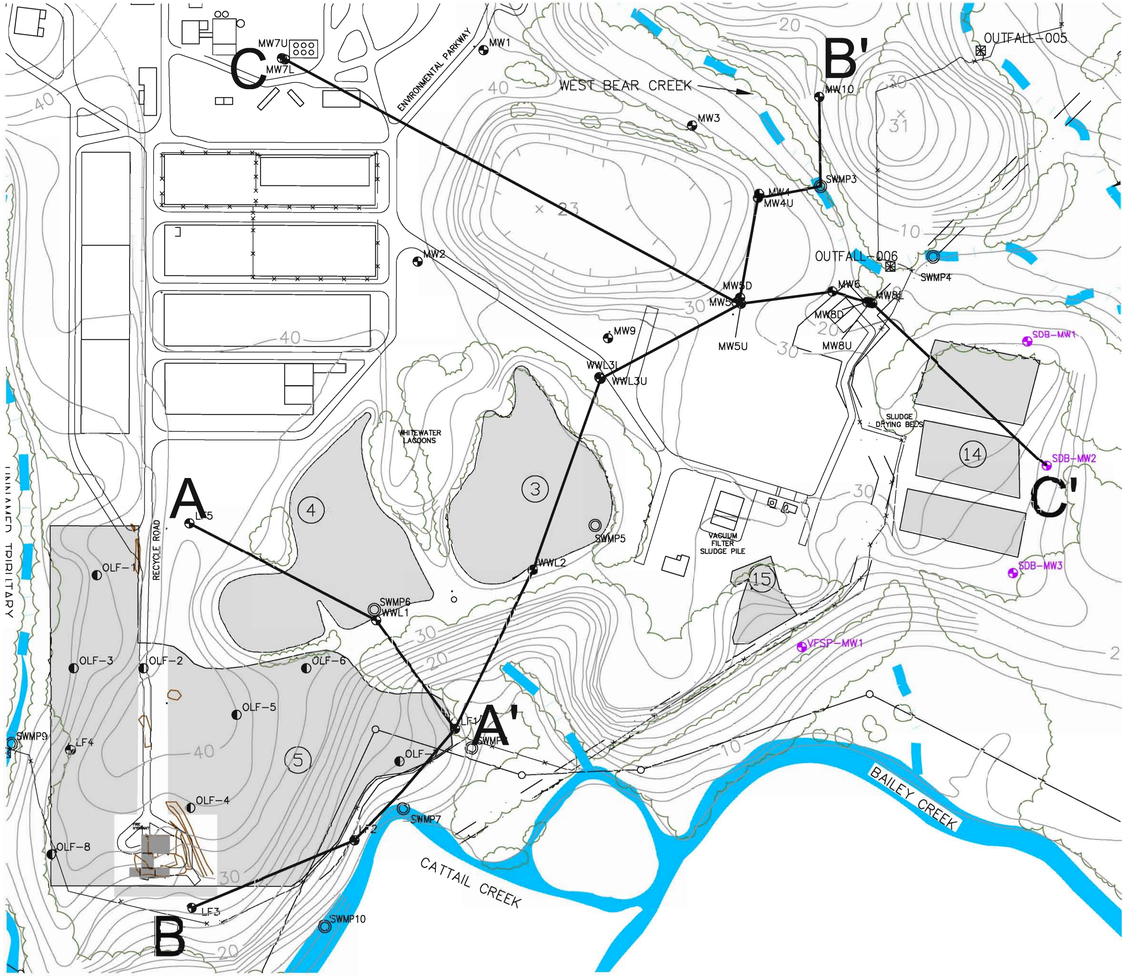
LAT. 037° 17' 19.86" N
LONG. 077° 16' 37.63" W

(APPROXIMATE SITE COORDINATES)

DRAFTED BY: W.A.W. (N.J.)	SITE LOCATION MAP
CHECKED BY:	HERCULES INCORPORATED AQUALON DIVISION HOPEWELL, VIRGINIA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 23 SOUTH 13th STREET, SUITE 201, RICHMOND, VA 23219
NORTH	SCALE IN FEET: 0 — 2000 / DATE: 10-26-07 / FIGURE: 1



S.C.L. RAILWAY CLASSIFICATION YARD
AQUALON PROPERTY LINE
HERCULES PROPERTY LINE
HERCULES ROAD
AQUALON PROPERTY LINE
HEAVY TREES
WEST BEAR CREEK
EAST BEAR CREEK
CATTAIL CREEK
BAILEY CREEK
UNNAMED TRIBUTARY
OUTFALL-022
OUTFALL-021
OUTFALL-001
OUTFALL-020
OUTFALL-019
OUTFALL-018
OUTFALL-002
OUTFALL-025
OUTFALL-027
OUTFALL-006
OUTFALL-005
OUTFALL-011
OUTFALL-010
OUTFALL-009
OUTFALL-013
TAP_WATER_1
TAP_WATER_2
AQUALON ROAD
QUALITY WAY
PETER'S HIGHWAY
CONTRACTOR ROAD
OLD SHOP STREET
WAREHOUSE LANE
EC DRIVE
STILL HOUSE DRIVE
BIG HORSE LANE
STORE ROOM DRIVE
FUTURE LOOP
ENVIRONMENTAL PARKWAY
RECYCLE ROAD
VACUUM FILTER SLUDGE PILE
LEGEND
MAJOR GROUND SURFACE CONTOUR
MINOR GROUND SURFACE CONTOUR
TREELINE
WATER, STREAMS, PONDS
UNDERGROUND STORM SEWER DRAIN
GROUNDWATER MONITORING WELL
STORM DRAIN MANHOLE LOCATION
OUTFALL LOCATION
SWMU LOCATIONS
SWMU LEGEND
SWMUs RETAINED FOR FURTHER EVALUATION
SWMU GRANTED NFA STATUS FOLLOWING 2007 PHASE III SISR
SWMU GRANTED NFA STATUS FOLLOWING THE OCTOBER 2001 FACILITY LEAD CORRECTIVE ACTION WORKPLAN
SWMU Key
1. Main Holding Basin (Groundwater)
2. Sandbox
3. Eastern White Water Lagoon
4. Western White Water Lagoon
5. Old Landfill and Landfill #156
6. Landfill #477
7. Natrosol Lagoon
8. Reten/Aqualon (Anoxic) Basin
9. Main Lift Station
10. Neutralization Basin
11. Belt Press Facility
12. Aeration Basin
13. Clarifier
14. Sludge Drying Beds
15. Vacuum Filter Sludge Pile
16. Solid Waste Incinerator
17.,18. Boilers #5 & #6
19.,20.,21. Low Wine Tanks
22. Sludge Thickener
23. Sludge Pump House
24. Salt Pile
25. Drum Storage Area
26. Drum Crusher
27. Asbestos Storage Shed
28. Brine Slurry Tank
29. Anoxic Basin
30. New Main Lift Station (CDLNS)
31. Accumulation Tank T-70
32. Waste Accumulation
33. Satellite Accumulation (Several)
34. Teepee Incinerator
DRAFTED BY: AM (ES&T)
CHECKED BY: EW
REVIEWED BY: MB
NORTH
SWMU SUMMARY MAP
HERCULES INCORPORATED
AQUALON DIVISION
HOPEWELL, VIRGINIA
Groundwater & Environmental Services, Inc.
23 SOUTH 13TH STREET • SUITE 201 • RICHMOND, VA 23219
SCALE IN FEET
0
150
DATE
2-25-11
FIGURE
2



LEGEND

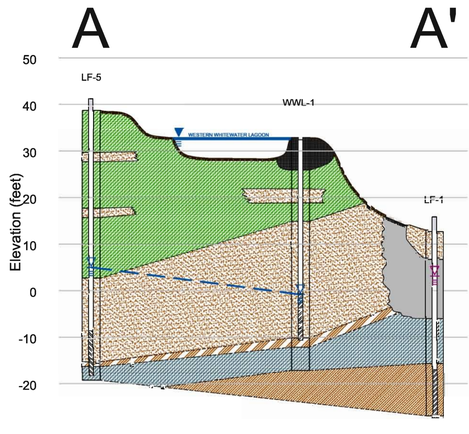
- SURFACE WATER ELEVATION
- UPPER AQUIFER POTENTIOMETRIC SURFACE
- LOWER AQUIFER POTENTIOMETRIC SURFACE

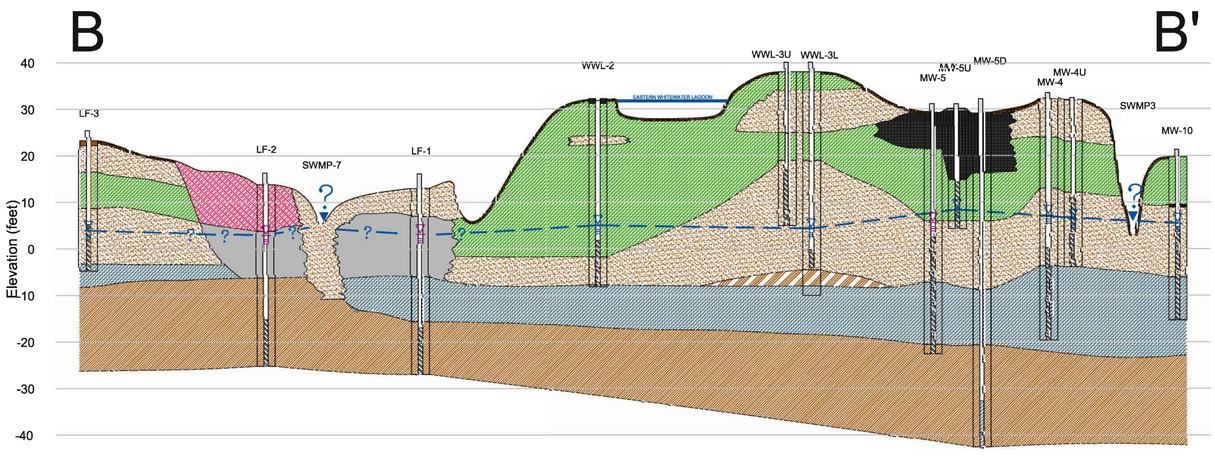
NOTES:
1) SURFACE TOPOGRAPHY IS APPROXIMATE
2) GROUNDWATER ELEVATION DATA WAS COLLECTED IN MAY & JUNE 2007
3) VERTICAL EXAGGERATION IS 10 TIMES
4) LINES DASHED WHERE INFERRED

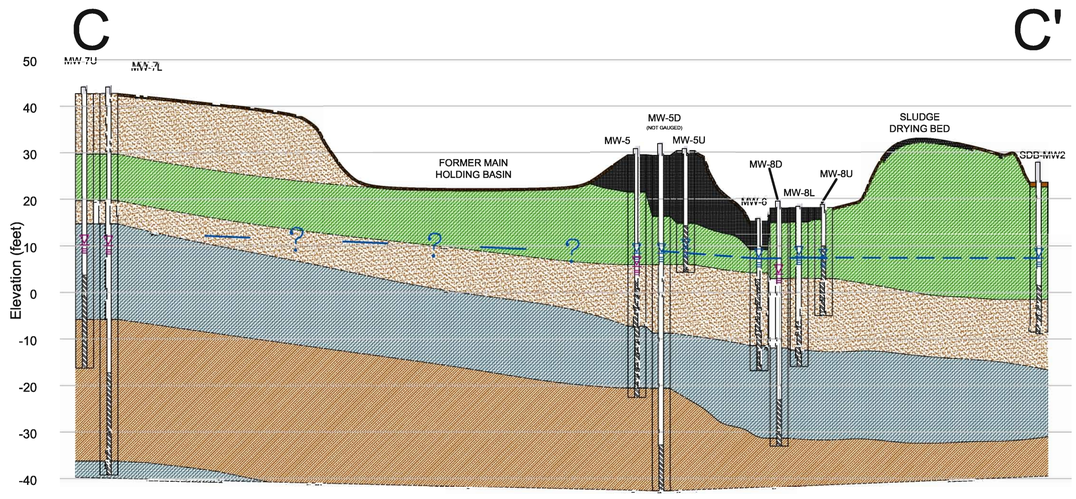
- ASH, CLAY AND GRAVEL FILL
- FINE TO COARSE SILTY SAND (UPPER SAND)
- COARSE SAND AND GRAVEL (LOWER SAND)
- SILTY CLAY
- CLAYEY FILL MATERIAL
- MARINE CLAY
- TOPSOIL
- ORGANIC MATERIAL
- WASTE MATERIAL

- MAJOR GROUND SURFACE CONTOUR
- MINOR GROUND SURFACE CONTOUR
- TREELINE
- WATER, STREAMS, PONDS
- UNDERGROUND STORM SEWER DRAIN
- GROUNDWATER MONITORING WELL
- NEW GROUNDWATER MONITORING WELL (MAY 2007)
- OUTFALL LOCATION
- SURFACE WATER SAMPLE LOCATION
- SWMU LOCATIONS

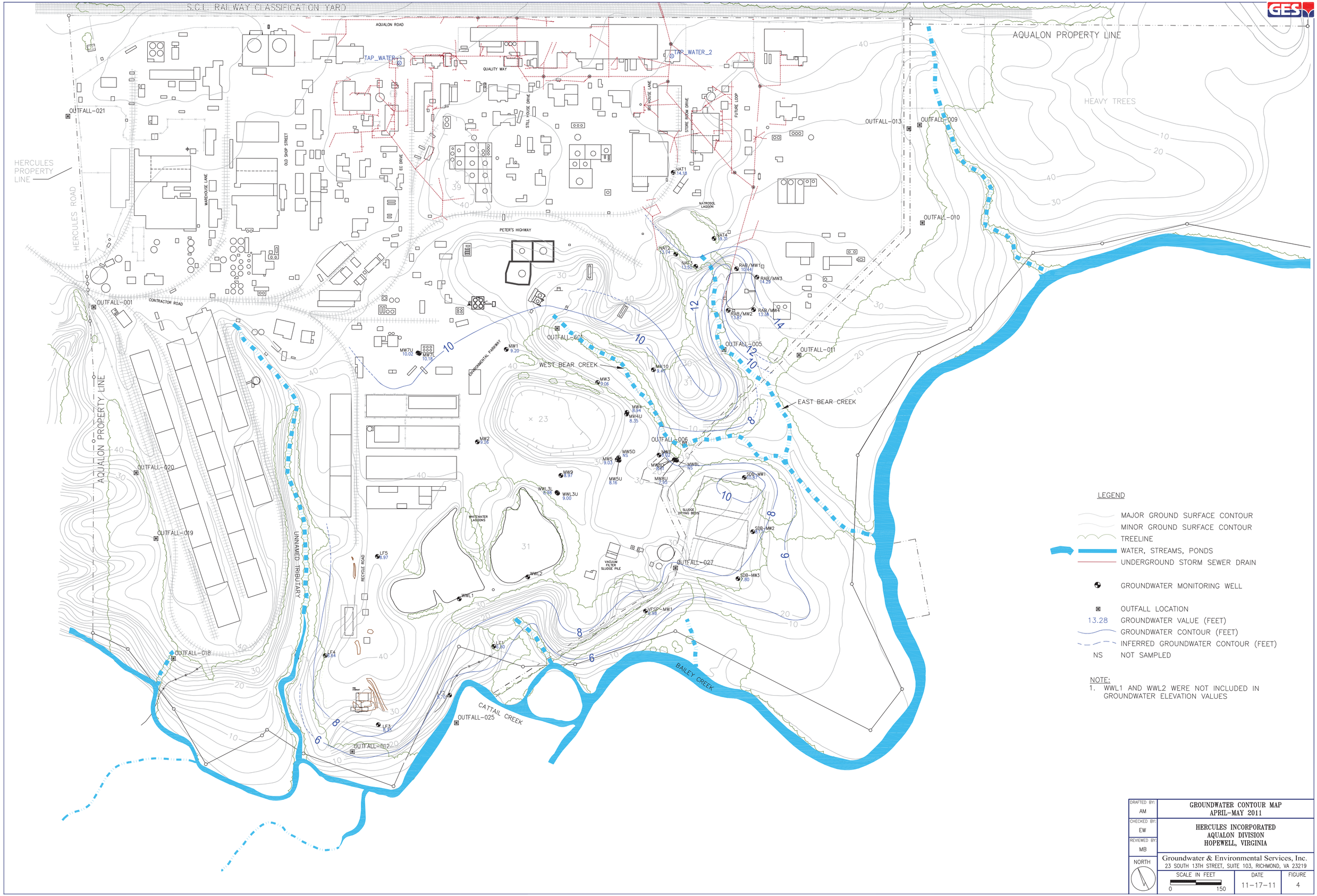
SWMU INDEX
3 EASTERN WHITEWATER LAGOON
4 WESTERN WHITEWATER LAGOON
5 OLD LANDFILL AND LANDFILL #156
7 NATROSOL LAGOON
8 RETEN/AQUALON (ANOXIN) BASIN
14 SLUDGE DRYING BEDS
15 VACUUM FILTER SLUDGE PILE







DRAWN BY: JCW	GENERALIZED GEOLOGIC CROSS SECTIONS
CHECKED BY: EW	HERCULES INCORPORATED AQUALON DIVISION HOPEWELL, VIRGINIA
REVISED BY: MB	Groundwater & Environmental Services, Inc. 23 SOUTH 13TH STREET, SUITE 201, RICHMOND, VA 23219
NORTH	SCALE IN FEET: 0 150 / DATE: 10-20-08 / FIGURE: 3


S.C.L. RAILWAY CLASSIFICATION YARD
AQUALON ROAD
AQUALON PROPERTY LINE
HEAVY TREES
HERCULES PROPERTY LINE
HERCULES ROAD
AQUALON PROPERTY LINE
TAP_WATER_1
TAP_WATER_2
QUALITY WAY
OLD SHOP STREET
WAREHOUSE LANE
EC DRIVE
STILL HOUSE DRIVE
BIG HOUSE LANE
STORE ROOM DRIVE
FUTURE LOOP
NATROSOL LAGOON
PETER'S HIGHWAY
CONTRACTOR ROAD
ENVIRONMENTAL PARKWAY
WEST BEAR CREEK
EAST BEAR CREEK
UNNAMED TRIBUTARY
RECYCLE ROAD
WHITEWATER LAGOONS
VACUUM FILTER SLUDGE PILE
SLUDGE DRYING BEDS
CATTAIL CREEK
BAILEY CREEK
OUTFALL-001
OUTFALL-005
OUTFALL-006
OUTFALL-009
OUTFALL-010
OUTFALL-011
OUTFALL-012
OUTFALL-013
OUTFALL-018
OUTFALL-019
OUTFALL-020
OUTFALL-021
OUTFALL-025
OUTFALL-027
OUTFALL-601
NAT1 14.18
NAT2 13.74
NAT3 13.50
NAT4 19.31
RAB/MW1 10.44
RAB/MW2 13.87
RAB/MW3 14.29
RAB/MW4 13.38
MW1 9.20
MW2 9.26
MW3 9.06
MW4 8.94
MW4U 8.35
MW5 9.03
MW5D NS
MW5U 8.16
MW6 8.02
MW8D 8.81
MW8L NS
MW8U 7.95
MW9 8.97
MW7U 10.02
MW7L 10.18
MW10 9.47
WWL1
WWL2
WWL3L 8.98
WWL3U 9.00
LF3 8.33
LF4 8.84
LF5 8.97
LF6 8.80
LF7 8.70
VFSP-MW1 8.98
SDB-MW1 10.87
SDB-MW2 8.17
SDB-MW3 7.80
LEGEND
MAJOR GROUND SURFACE CONTOUR
MINOR GROUND SURFACE CONTOUR
TREELINE
WATER, STREAMS, PONDS
UNDERGROUND STORM SEWER DRAIN
GROUNDWATER MONITORING WELL
OUTFALL LOCATION
13.28 GROUNDWATER VALUE (FEET)
GROUNDWATER CONTOUR (FEET)
INFERRED GROUNDWATER CONTOUR (FEET)
NS NOT SAMPLED
NOTE:
1. WWL1 AND WWL2 WERE NOT INCLUDED IN GROUNDWATER ELEVATION VALUES
DRAFTED BY: AM
CHECKED BY: EW
REVIEWED BY: MB
NORTH
GROUNDWATER CONTOUR MAP
APRIL-MAY 2011
HERCULES INCORPORATED
AQUALON DIVISION
HOPEWELL, VIRGINIA
Groundwater & Environmental Services, Inc.
23 SOUTH 13TH STREET, SUITE 103, RICHMOND, VA 23219
SCALE IN FEET
0 150
DATE 11-17-11
FIGURE 4

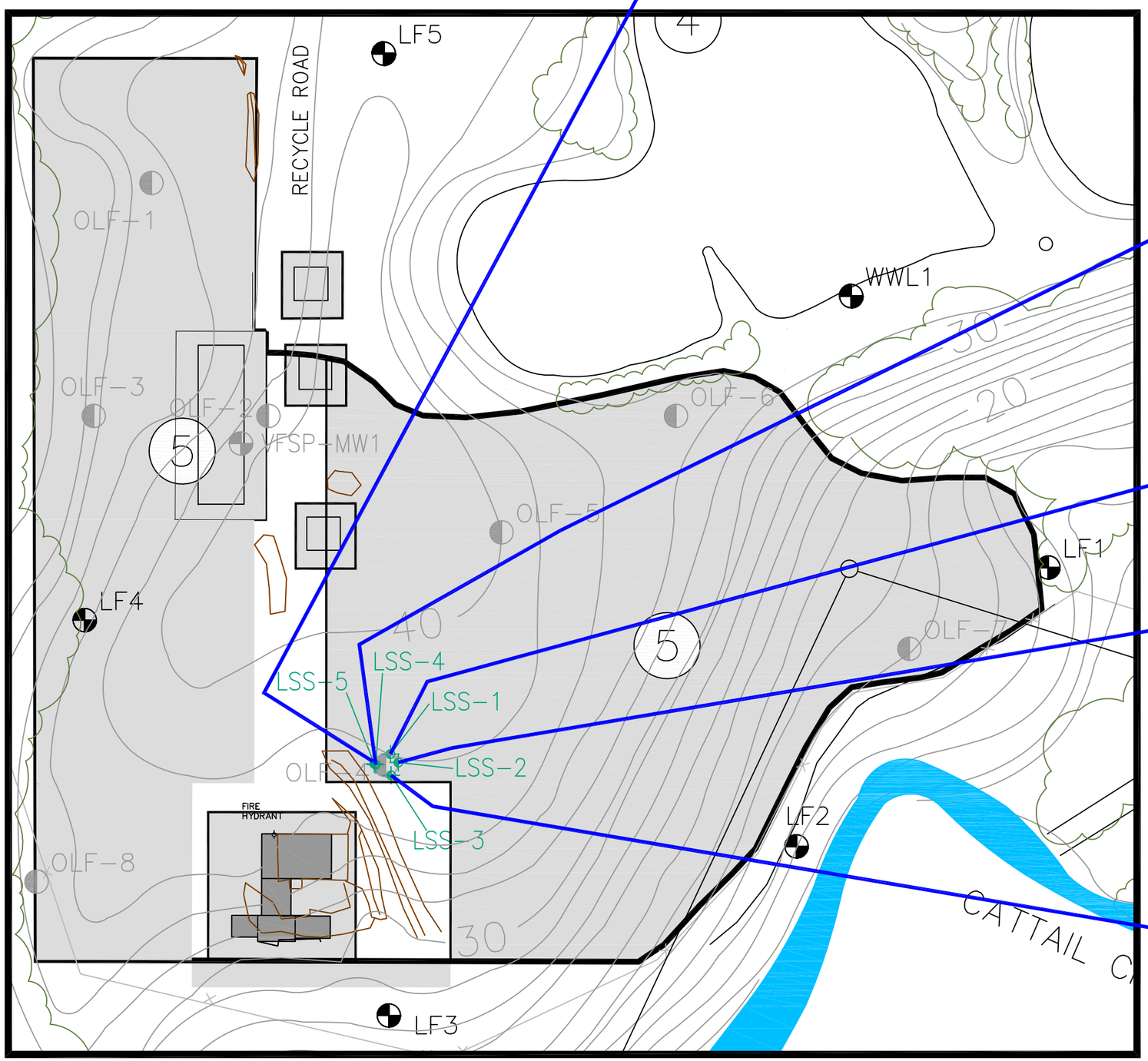
LSS-5	
Analyte	Conc/Qual (ug/kg)
Lead	18000

LSS-4	
Analyte	Conc/Qual (ug/kg)
Lead	45000

LSS-1	
Analyte	Conc/Qual (ug/kg)
Lead	17000

LSS-2	
Analyte	Conc/Qual (ug/kg)
Lead	18000

LSS-3	
Analyte	Conc/Qual (ug/kg)
Lead	22000



RESIDENTIAL SOIL RSL EXCEEDANCE
MAJOR GROUND SURFACE CONTOUR
MINOR GROUND SURFACE CONTOUR
TREELINE
WATER, STREAMS, PONDS
GROUNDWATER MONITORING WELL
2007 PHASE III INVESTIGATION
2009 LANDFILL SOIL SAMPLE LOCATION
SWMU LOCATIONS

DRAFTED BY: AM (ES&T)
CHECKED BY: E.N.W
REVIEWED BY: M.S.B
NORTH

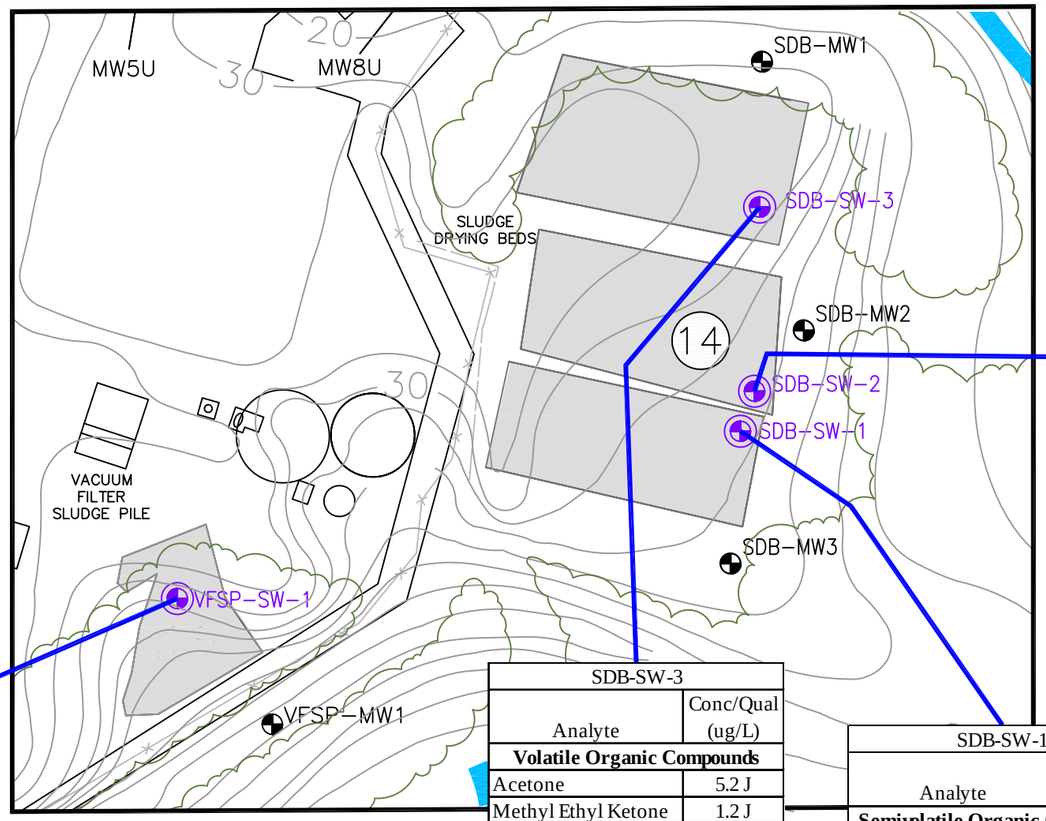
LF SAMPLE LOCATION AND SOIL DETECTION MAP

HERCULES INCORPORATED
AQUALON DIVISION
HOPEWELL, VIRGINIA

Groundwater & Environmental Services, Inc.
23 SOUTH 13TH STREET, SUITE 103, RICHMOND, VA 23219

SCALE IN FEET: 0 — 100
DATE: 9-14-11
FIGURE: 5

VFSP-SW-1	
Analyte	Conc/Qual (ug/L)
Volatile Organic Compounds	
t-Butanol	4.9 J
Semivolatile Organic Compounds	
Benzo[k]fluoranthene	0.58 J
Benzo[g,h,i]perylene	1.5 J
Benzo[a]pyrene	0.96 J
Dibenz(a,h)anthracene	2.6 J
Indeno[1,2,3-cd]pyrene	1.7 J
Alcohols and Glycols	
Diethylene glycol	1000 J
Ethylene glycol	1000 J
Metals	
Aluminum	830
Antimony	0.52 J
Arsenic	1.2 J
Barium	41
Beryllium	0.1 J
Calcium	3300
Chromium	4.2 JB
Cobalt	1.2
Copper	7.7
Iron	7000
Lead	5.2
Magnesium	940
Manganese	25
Nickel	3.8 B
Potassium	2700
Sodium	3600
Vanadium	5.4 B
Zinc	120
Inorganic, Non-Metals	
Chloride	2800
Nitrate as N	380
Nitrite as N	15 J
Nitrogen, Kjeldahl	870 B
Total Organic Carbon	6000
Sulfate	17000



SDB-SW-3	
Analyte	Conc/Qual (ug/L)
Volatile Organic Compounds	
Acetone	5.2 J
Methyl Ethyl Ketone	1.2 J
Alcohols and Glycols	
Ethylene glycol	3400 J
Metals	
Aluminum	1100
Arsenic	0.75 J
Barium	42
Beryllium	0.20 B
Cadmium	0.15 B
Calcium	4500
Chromium	2.5 J
Cobalt	2.2
Copper	6.7
Iron	2100
Lead	2
Magnesium	2100
Manganese	350 L
Nickel	4.1
Potassium	3800
Silver	4000
Thallium	5.3
Vanadium	58
Zinc	3800
Inorganic, Non-Metals	
Chloride	3300
Nitrate as N	71
Nitrogen, Kjeldahl	1200 L
Total Organic Carbon	21000
Sulfate	14000

SDB-SW-1	
Analyte	Conc/Qual (ug/L)
Semivolatile Organic Compounds	
Benzo[g,h,i]perylene	1.2 J
Benzo[a]pyrene	0.66 J
Dibenz(a,h)anthracene	1.3 J
Indeno[1,2,3-cd]pyrene	1.3 J
Alcohols and Glycols	
Ethylene glycol	3500 J
Metals	
Aluminum	320
Arsenic	0.95 J
Barium	9.9
Calcium	2900
Chromium	1.8 JB
Cobalt	0.47 J
Iron	5400
Lead	1 J
Magnesium	1500
Manganese	49
Nickel	1.4 B
Potassium	4900
Sodium	3500
Vanadium	3.1 JB
Zinc	8.1 J
Inorganic, Non-Metals	
Chloride	6100
Nitrogen, Kjeldahl	1000 B
Total Organic Carbon	12000
Sulfate	9300

SDB-SW-2	
Analyte	Conc/Qual (ug/L)
Volatile Organic Compounds	
Acetone	13 J
Methyl Ethyl Ketone	1.8 J
t-Butanol	11
Toluene	0.51 J
Semivolatile Organic Compounds	
Benzo[g,h,i]perylene	0.71 J
Dibenz(a,h)anthracene	0.64 J
1-Naphthalenamine	7.4 J
Alcohols and Glycols	
Ethylene glycol	5100
Metals	
Aluminum	540
Arsenic	0.68 J
Barium	7.1
Calcium	3500
Chromium	1.9 JB
Cobalt	0.27 J
Copper	1.6 J
Iron	2500
Lead	0.49 J
Magnesium	1600
Manganese	67
Nickel	1.3 B
Potassium	4100
Sodium	4100
Vanadium	2.6 JB
Zinc	13 J
Inorganic, Non-Metals	
Chloride	5100
Nitrogen, Kjeldahl	1600 B
Total Organic Carbon	13000
Sulfate	7300

WQS EXCEEDANCE

MCL EXCEEDANCE

TAP WATER RSL EXCEEDANCE

NOTE: SURFACE WATER DETECTIONS WERE SCREENED AGAINST THE JANUARY 2011 VIRGINIA WATER QUALITY STANDARDS (WQS) FOR HUMAN HEALTH. IN THE ABSENCE OF A VIRGINIA WQS, THE JUNE 2011 USEPA TAPWATER RSL WAS USED AS THE SCREENING CRITERIA.

MAJOR GROUND SURFACE CONTOUR

MINOR GROUND SURFACE CONTOUR

TREELINE

WATER, STREAMS, PONDS

GROUNDWATER MONITORING WELL

SURFACE WATER SAMPLE

SWMU LOCATIONS

DRAFTED BY: AM (ES&T)

CHECKED BY: E.N.W

REVIEWED BY: M.S.B

NORTH

VFSP AND SDB SAMPLE LOCATION AND SURFACE WATER DETECTION MAP

HERCULES INCORPORATED
AQUALON DIVISION
HOPEWELL, VIRGINIA

Groundwater & Environmental Services, Inc.
23 SOUTH 13TH STREET, SUITE 103, RICHMOND, VA 23219

SCALE IN FEET: 0 — 150

DATE: 9-14-11

FIGURE: 6

TABLES

Table 1
List of Previous Facility Lead Corrective Action (FLCA) Reports
Hercules - Aqualon
Hopewell, Virginia

Submittal Date	Title	USEPA Approval Date
October 2001	Facility Lead Corrective Action Agreement Workplan	29 November 2001
June 2002	Hydrogeologic Evaluation	N/A
September 2004	Environmental Indicators	30 September 2004
September 2005	Phase I/II RCRA Facility Investigation (RFI) Report	14 December 2009
November 2007	Phase III Site Investigation Summary Report (SISR)	14 December 2009

Notes:
The November 2007 Phase III SISR included Hercules' response to USEPA comments on the September 2005 Phase I/II RFI Report; therefore, the approval letter for the Phase III SISR applied to both reports.

Table 2
Summary of Solid Waste Management Units (SWMUs) Current Status
Hercules - Aqualon
Hopewell, Virginia

SOLID / HAZARDOUS WASTE MANAGEMENT UNITS (SWMUs)	Unit ID	Unit Name	Brief Description	Status	Notes
Main Holding Basin (MHB)	SWMU-1	Main Holding Basin	The Main Holding Basin (MHB) was a five-acre, unlined surface impoundment constructed in 1962 for pretreatment of the plant's industrial waste streams. Closure certified 1993 (clean soil) to RCRA standards. GW constituents downgradient demonstrated not exceeding background 3/97. VVRP Cert. of Satisfactory Completion signed by VADEQ 10/99. Note that the Neutralization Basin that required no further action was removed as part of the MHB closure project.	Retained for Further Investigation	Recommended for further groundwater evaluation in 2007 Phase III SISR
Sandbox	SWMU-2	Sandbox	Waste pile. Lined.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Eastern Whitewater Lagoon	SWMU-3	Eastern Whitewater Lagoon	Two Lagoons lie adjacent to one another, and are joined by a pipe at their southern ends. Lagoons were used primarily for disposal of whitewater, a waste stream from the Chemical Cotton Process. Starting in approximately 1976, the Eastern Whitewater Lagoon also received waste-activated sludge from the facility's Bioplant.	Retained for Further Investigation	Recommended for further evaluation in 2007 Phase III SISR
Western Whitewater Lagoon	SWMU-4	Western Whitewater Lagoon	See above.	Retained for Further Investigation	Recommended for further evaluation in 2007 Phase III SISR
Landfill and Old Landfill #156	SWMU-5	Landfill and Old Landfill #156	Landfill #156 was a permitted solid waste landfill which was operational from 1972 to 1988. The Old Landfill is the adjacent area which was used for waste disposal dating back to the 1930's. The VADEQ agreed in 1989 that Landfill #156 had been properly closed.	Retained for Further Investigation	Recommended for further evaluation in 2007 Phase III SISR
Landfill #477 (inert fill)	SWMU-6	Landfill #477 (inert fill)	Located at the east end of the main plant area, the 4 acre area was permitted by the VDEQ as an inert waste landfill. Since 1985, it has received inert construction and demolition debris. VADEQ agreed that inert disposal sites do not need a landfill permit and, in November 1988, revoked Permit 477.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Natrosol Lagoon	SWMU-7	Natrosol Lagoon	An unlined impoundment that received cellulose derivatives manufacturing waste from 1962 through 1988. A Closure Report was submitted to the VADEQ in May 1995 documenting closure of the lagoon by dredging, excavation, and off-site disposal of sludge as solid waste. The lagoon was covered with a layer of top soil and vegetated to stabilize the soil. It was allowed to fill with surface and ground water to become a wildlife habitat pond which has supported a growing population of bass, catfish, and brim, since their introduction in October 1996.	Retained for Further Investigation	Recommended for further evaluation in 2007 Phase III SISR
Reten/Aqualon/Anoxic Basin	SWMU-8 & 29	Reten/Aqualon/ Anoxic Basin	The Reten/Aqualon Basin (RAB) was originally constructed in 1976 to treat nonhazardous wastewaters from acrylamide polymer manufacturing and absorbent fiber areas. The original basin was constructed with gunnite wall and an asphalt bottom. In early 1989, the RAB was enlarged deeper and laterally, and was fitted with a 40-mil plastic liner. The enhanced unit (called the Anoxic Basin) was used for treatment of all neutralized wastewater from June 1989 until late December 1989, when it was removed from service due to liner tears in the north end.	Retained for Further Investigation	Recommended for further groundwater evaluation in 2007 Phase III SISR
Main Lift Station	SWMU-9	Main Lift Station	An in-ground concrete tank constructed in 1978 to pump EC area, CMC, and laboratory wastewater to the Neutralization Basin. Backup to SWMU-30.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Neutralization Basin	SWMU-10	Neutralization Basin	A separate unit located in the upgradient bank of the Main Holding Basin (MHB) and discharged through an approximately 20-foot acid–brick lined flume into the MHB. It served as an elementary neutralization tank for plant wastewater. It was removed as part of the MHB Closure Project.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan

Table 2
Summary of Solid Waste Management Units (SWMUs) Current Status
Hercules - Aqualon
Hopewell, Virginia

SOLID / HAZARDOUS WASTE MANAGEMENT UNITS (SWMUs)	Unit ID	Unit Name	Brief Description	Status	Notes
Belt Press Facility	SWMU-11	Belt Press Facility	The sludge dewatering Belt Press was located in an enclosed metal building together with ancillary mixing tanks and dissolved air flotation equipment. The Belt Press Facility was used to dewater sludge pumped from the Bioplant Clarifier, and it also processed fibrous solids from the Chemical Cotton Plant. It operated until the Bioplant was removed from service in 1989.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Aeration Basin	SWMU-12	Aeration Basin	The Aeration Basin was a rectangular concrete-lined basin of approximately 128 by 237 by 19 feet and a holding capacity of 2,000,000 gallons. The Basin was part of the Bioplant that was placed into service in 1962. The unit was equipped with aeration equipment. Prior to 1989, the unit treated nonhazardous effluent from the Main Holding Basin.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Clarifier	SWMU-13	Clarifier	The Clarifier is a circular in-ground tank 80 feet across by 12 feet deep, which received effluent from the Aeration Basin. The Clarifier was constructed of concrete in 1962. It received nonhazardous Aeration Basin effluent and produced waste activated sludge and low-BOD clarified wastewater. The Clarifier was removed from wastewater treatment service in December 1989. It since collects rainwater and is pumped down about once a year. This unit now supports a thriving bullfrog population.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Sludge Drying Beds	SWMU-14	Sludge Drying Beds	The Sludge Drying Beds (SDB) consisted of three unlined rectangular beds probably constructed in late 1970 to replace the Vacuum Filter Press. Sludge from the Bioplant was pumped to the beds to dry, and was then periodically removed and landfilled. In approximately 1976, the Facility began pumping the sludge to the Eastern Whitewater Lagoon, and ceased use of the SDB.	Retained for Further Investigation	Recommended for further evaluation in 2007 Phase III SISR
Vacuum Filter Sludge Pile	SWMU-15	Vacuum Filter Sludge Pile	The Vacuum Filter Sludge Pile (VFSP) was a 50-foot wide surface impoundment used for temporary storage of sludge generated by a vacuum filter press during the 1960's and 1970's. The sludge was transported to the VFSP via conveyor belt, and the resulting filtrate was piped to the Facility's Aeration Basin for treatment. The solid cake sludge in the VFSP was then periodically removed and landfilled.	Retained for Further Investigation	Recommended for further evaluation in 2007 Phase III SISR
Solid Waste Incinerator	SWMU-16	Solid Waste Incinerator	The Solid Waste Incinerator was constructed in 1972 in the Old Landfill Area (but probably not on top of the fill as suggested in the RFA). The Incinerator was used to burn up to 16,500 tons per year of the plant's nonhazardous trash. The incinerator structure and the ash residue were removed and disposed at BFI Landfill during July 1988. The concrete foundation remains.	No Further Action	No Further Action status granted following submittal of 2007 Phase III SISR
Boilers No. 5 and No. 6	SWMU-17 & 18	Boilers No. 5 and No. 6	Boilers No. 5 and No 6. were constructed in late 1930's and were outfitted to burn Low Wine in 1984 as a supplemental fuel. In 1984 they had a 6 million-pound per year capacity (for Low Wine) and were rated at 189 million btu per hour. The boilers were shut down in 1990 when the neighboring co-generation facility came on line to supply plant steam.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Low Wine Storage Tanks	SWMU-19, 20, 21	Low Wine Storage Tanks	The Low Wine Storage Tanks are three above ground steel tanks in the ethylcellulose (EC) process area with capacities of 15,666 gallons for T-22; 24,889 gallons for T-24; and 21,100 for T-27. These tanks were formally certified (in 1989) for hazardous waste service based on design, pre-existing certifications, waste material characteristics, ultrasonic thickness testing, and existing corrosion protection. Tank T-24 was removed from service in 1991 because it no longer met the optional high-pressure standards that the Hopewell plant imposes for Low Wine storage. Tanks T-22 and T-27 continue as Low Wine storage and continue to be certified as pressure vessel.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Sludge Thickener	SWMU-22	Sludge Thickener	The Sludge Thickener is a 34-foot diameter by 17-foot deep in-ground concrete tank, which received the waste-activated sludge stream from the Clarifier. The Thickener was constructed in 1962 along with other components of the Bioplant. This unit was taken out-of-service when the Belt Press Facility (SWMU-11) was started in 1981.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Sludge Pump House	SWMU-23	Sludge Pump House	The Sludge Pump House is a 10-foot by 10-foot concrete block building which was constructed in 1962. The building houses two centrifugal pumps with a total capacity of 240 gpm that conveyed activated sludge from the thickener (1962-1981) or from the Clarifier (1981-1989). The building also contained ancillary piping, valves, and electrical equipment for the pumps.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan

Table 2
Summary of Solid Waste Management Units (SWMUs) Current Status
Hercules - Aqualon
Hopewell, Virginia

SOLID / HAZARDOUS WASTE MANAGEMENT UNITS (SWMUs)	Unit ID	Unit Name	Brief Description	Status	Notes
Salt Pile	SWMU-24	Salt Pile	The Salt Pile consisted of approximately 1000 cubic yards of by-product sodium chloride salt from the caustic recovery part of the ethylcellulose manufacturing process. The Salt Pile was used from about 1939 Until 1983. It was removed in 1988 prior to the VSI for the RFA.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Drum Storage Area (Container Storage Area)	SWMU-25	Drum Storage Area (Container Storage Area)	The Container Storage Area (CSA) was two sections of a larger concrete pad at least 4 in. thick. These sections were used to accumulate hazardous waste managed in sealed drums. After the Sand Box removal in 1985, the CSA was used to accumulate hazardous waste managed in sealed drums. In 1989 the Waste Accumulation Building (#32) was completed and placed in service, and waste was removed from the CSA.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Drum Crusher	SWMU-26	Drum Crusher	The Drum Crusher is located within the Old Landfill Area. The Drum Crusher consists of a hydraulic ram on a concrete base located within a 10 ft. x 17-ft. structure having two sides and a roof of corrugated fiberglass. The unit was constructed in 1975 and is still used to crush decontaminated steel and plastic drums.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Asbestos Staging Shed	SWMU-27	Asbestos Staging Shed	The Shed was a 10 ft. x 10 ft. corrugated fiberglass building constructed in 1983 which served as a staging area for bagged asbestos removed during the course of demolition and maintenance activities at the plant site. The Shed's use was discontinued prior to the RFA VSI.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Brine Slurry Tank	SWMU-28	Brine Slurry Tank	The tank was an in-ground concrete-lined salt slurry pit located within the northwest corner of the concrete pad containing the Salt Pile (SWMU-24). This tank was used to slurry the by-product salt in water and then pump the slurry to the Caustic-Chlorine Plant where it was purified and used in caustic-chlorine manufacture. It was taken out of service in 1983.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
New Main Lift Station (CDLNS)	SWMU-30	New Main Lift Station (CDLNS)	The CDLNS is an in-ground 90,000-gallon concrete tank that consists of four chambers. Placed into operation in 1989, three of the chambers are used for a three-step pH adjustment process of the plant's wastewater and the fourth is for containment of overflows occurring during heavy rain events.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Hazardous Waste Accumulation Tank T-70	SWMU-31	Hazardous Waste Accumulation Tank T-70	Starting during the mid-1980's, the aboveground steel tank, was used as a less than 90-day accumulation tank for spent solvent generated in the plant's Technical Facility. The tank was cleaned and removed in 1994 after a leak resembling a drop of dew was observed.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Waste Accumulation Building	SWMU-32	Waste Accumulation Building	The Building is used primarily to accumulate filled satellite drums of solvent wastes and any other containerized hazardous waste occasionally generated on site. The building was placed into service in 1989 and is still in use.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Satellite Accumulation	SWMU-33	Satellite Accumulation	Ongoing satellite accumulation currently is done in containers at five locations on the plant site. As each container is filled, it is moved to the Waste Accumulation Building (SWMU-32) that day and replaced with an empty container.	No Further Action	No Further Action status granted following submittal of October 2001 Facility Lead Corrective Action Agreement Workplan
Teepee Incinerator	SWMU-34	Teepee Incinerator	The Teepee Incinerator was an oil-fired conical refuse burner. The unit was probably installed in late 1961 and operated until about 1980, when it became obsolete by new air regulations. Aerial photographs indicate that the unit had been removed by late 1988.	No Further Action	No Further Action status granted following submittal of 2007 Phase III SISR

Table 3
Summary of Supplemental Phase III Soil Constituents, Old Landfill Landfill #156
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	C/N[1]	Unit	Regional Screening Levels		Risk-Based SSL[3]		MCL-Based SSL[3]		Old Landfill and Landfill #156				
										LSS-1	LSS-2	LSS-3	LSS-4	LSS-5
										3/18/2009	3/18/2009	3/18/2009	3/18/2009	3/18/2009
				Industrial Soil[2]	Residential Soil[2]	DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Metals														
Lead	7439-92-1	N	ug/Kg	80,000	40,000	---	---	14,000	280,000	17,000	18,000	22,000	45,000	18,000

Notes:
ug/Kg = micrograms per kilogram

C/N = Carcinogen / Non-Carcinogen

MCL = USEPA Maximum Contaminant Level
SSL = Soil Screening Levels
DAF = Dilution Attenuation Factor
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA

Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Migration of Groundwater SSL values are based on DAF-1 and DAF-20

Table 4
Summary of Supplemental Phase III Surface Water Constituents, Vacuum Filter Sludge Pile and Sludge Drying Beds
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C/N[1]	Tapwater [2]	MCL	VA Water Quality Standards[3]	VFSP-SW-1	SDB-SW-1	SDB-SW-2	SDBSW-3	BD-1 (SDBSW-3)
						3/17/2009	3/17/2009	3/17/2009	3/18/2009	3/18/2009
						Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Surface Water Quality Parameters										
pH (Std. units)						7.01	7.29	6.87	8.35	
Conductivity (mS/cm)						0.059	0.054	0.048	0.137	
Dissolved Oxygen (mg/L)						6.41	12.03	10.78	8.62	
Temperature (ºC)						9.1	9.63	10.56	10.43	
Oxidation Reduction Potential (mV)						39.8	86.2	88.9	192.8	
Volatile Organic Compounds (ug/L)										
Acetone	67-64-1	N	2200	--	--	25 U	25 U	13 J	5.2 J	25 U
Methyl Ethyl Ketone	78-93-3	N	710	--	--	10 U	10 U	1.8 J	1.2 J	10 U
Propionitrile	107-12-0	--	--	--	--	20 U	20 U	20 U	20 U	20 U
t-Butanol	75-65-0	--	12	--	--	4.9 J	5 U	11	5 U	5 U
Toluene	108-88-3	N	230	1000	6000	1 U	1 U	0.51 J	1 U	1 U
Volatile Organic Compounds-TIC (ug/L)										
Carbon Dioxide	124-38-9	--	--	--	--	38 T B J N	44 T B J N	34 T B J N	27 T B J N	28 T B J N
Unknown	--	--	--	--	--	12 T J	7.8 T J	6.3 T J	13 T J	6.4 T J
Unknown	--	--	--	--	--	37 T J		33 T J	35 T J	32 T J
Semivolatile Organic Compounds (ug/L)										
Benzo[k]fluoranthene	207-08-9	C	0.29	--	0.18	0.58 J	9.4 U	9.7 U	9.4 U	9.4 U
Benzo[g,h,i]perylene	191-24-2	--	--	--	--	1.5 J	1.2 J	0.71 J	9.4 U	9.4 U
Benzo[a]pyrene	50-32-8	C	0.0029	0.2	0.18	0.96 J	0.66 J	9.7 U	9.4 U	9.4 U
Dibenz(a,h)anthracene	53-70-3	C	0.0029	--	0.18	2.6 J	1.3 J	0.64 J	9.4 U	9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	--	0.18	1.7 J	1.3 J	9.7 U	9.4 U	9.4 U
1-Naphthalenamine	134-32-7	--	--	--	--	9.4 U	9.4 U	7.4 J	9.4 U	9.4 U
Semivolatile Organic Compounds-TIC (ug/L)										
Unknown Aldol Condensate	--	--	--	--	--	30 T A J	30 T A J	28 T A J	20 T A J	--
Ethane, 1,1,2,2-tetrachloro-	79-34-5	C	0.067	--	--	12 T J N	10 T J N	8.9 T J N	--	--
9-Hexadecenoic acid	2091-29-4	--	--	--	--	--	--	4.2 T J N	--	--
Phosphine oxide, triphenyl-	791-28-6	N	73	--	--	--	--	--	6.9 T J N	12 T J N
Unknown	--	--	--	--	--	--	--	4.6 T J	4.1 T J	5.2 T J
Unknown	--	--	--	--	--	--	--	9.7 T J	5.8 T J	4.6 T J
Unknown	--	--	--	--	--	--	--		5 T J	8 T J
Unknown Organic Acid	--	--	--	--	--	--	--		4.9 T J	--
Alcohols and Glycols (ug/L)										
Diethylene glycol[4]	111-46-6	--	7300	--	--	1000 J	5000 U	5000 U	5000 U	5000 U
Ethylene glycol	107-21-1	N	7300	--	--	1000 J	3500 J	5100	3400 J	4100 J
Metals (ug/L)										
Aluminum	7429-90-5	N	3700	--	--	830	320	540	1100	950
Antimony	7440-36-0	N	1.5	6	640	0.52 J	2.5 U	2.5 U	2.5 U	2.5 U
Arsenic	7440-38-2	C	0.045	10	--	1.2 J	0.95 J	0.68 J	0.75 J	0.6 J
Barium	7440-39-3	N	730	2000	--	41	9.9	7.1	42	23
Beryllium	7440-41-7	N	7.3	4	--	0.10 B	0.5 U	0.5 U	0.20 B	0.090 B
Cadmium	7440-43-9	N	1.8	5	--	0.5 U	0.5 U	0.5 U	0.15 B	0.5 U
Calcium	7440-70-2	--	--	--	--	3300	2900	3500	4500	3600
Chromium	7440-47-3	--	--	100	--	4.2 B	1.8 B	1.9 B	2.5 J	1.9 J
Cobalt	7440-48-4	N	1.1	--	--	1.2	0.47 J	0.27 B	2.2	0.85
Copper	7440-50-8	N	150	1300	--	7.7	5 U	1.6 J	6.7	4.1 J
Iron	7439-89-6	N	2600	--	--	7000	5400	2500	2100	1100
Lead	7439-92-1	N	--	15	--	5.2	1 J	0.49 J	2	0.59 J
Magnesium	7439-95-4	--	--	--	--	940	1500	1600	2100	1900
Manganese	7439-96-5	N	88	--	--	25	49	67	350 L	120 L
Nickel	7440-02-0	N	73	--	4600	3.8	1.4 B	1.3 B	4.1	3.1
Potassium	2023-69-5	--	--	--	--	2700	4900	4100	3800	4000
Silver	7440-22-4	N	18	--	--	1 U	1 U	1 U	4000	3900
Sodium	7440-23-5	--	--	--	--	3600	3500	4100	1 U	1 U
Thallium	7440-28-0	N	0.037	2	0.47	1 U	1 U	1 U	5.3	3.0 J
Vanadium	7440-62-2	N	18	--	--	5.4 B	3.1 B	2.6 B	58	34
Zinc	7440-66-6	N	1100	--	26000	120	8.1 J	13 J	3800	4000
Inorganic, Non-Metals (ug/L)										
Chloride	16887-00-6	--	--	--	--	2800	6100	5100	3300	3700
Nitrate as N	14797-55-8	N	5800	10000	--	380	250 U	250 U	71	140
Nitrite as N	14797-65-0	N	370	1000	--	15 B	50 U	50 U	50 U	50 U
Nitrogen, Kjeldahl	--	--	--	--	--	870 L	1000 L	1600 L	1200 L	1100 L
Total Organic Carbon	7440-44-0	--	--	--	--	6000	12000	13000	21000	19000
Sulfate	14808-79-8	--	--	--	--	17000	9300	7300	14000	14000

Notes:
ug/L = micrograms per liter; mg/L = milligrams per liter; mS/cm = millisiemens per centimeter; ºC = degrees Celsius; mV = megaVolts
C/N = Carcinogen / Non-Carcinogen
MCL = USEPA Maximum Contaminant Level
SSL = Soil Screening Levels
DAF = Dilution Attenuation Factor
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3]Virginia Water Quality Standard for Human Health (Virginia State Water Control Board, January 2011)

[4]Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table

A = The tentatively identified compound is a suspected aldol-condensation product
B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration
L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 5
Groundwater Sampling Collection Matrix
April/May 2011 Site-Wide Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

			Corrective Action Analyses									Geochemical Analyses						
Well ID	Sample Date	Sample Time	Appendix IX VOCs[1]	Appendix IX SVOCs[2]	Alcohols[3]	Metals[4]	Chloride[5]	Nitrates / Nitrites[6]	Sulfate[7]	TKN[8]	TOC[9]	Metals/Inorganics[10]	Sulfide[11]	Alkalinity[12]	Major Anions[13]	Major Cations[14]	TOC[9]	Iron Speciation[15]
MW-1	5/2/2011	9:25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-2	4/29/2011	14:30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-3	4/26/2011	15:55	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-4	4/29/2011	10:45	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-4U	4/29/2011	12:35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-5	4/29/2011	11:40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-5U	4/29/2011	10:40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-5D	Well Not Sampled																	
MW-6	4/26/2011	14:45	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
MW-7U	4/28/2011	16:35	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
MW-7L	4/28/2011	16:40	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
MW-8U	4/26/2011	11:20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-8L	Well Not Sampled																	
MW-8D	4/26/2011	9:25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MW-9	4/29/2011	14:05	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
MW-10	4/28/2011	14:40	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
NAT-1	4/28/2011	10:45	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
NAT-2	4/28/2011	12:20	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
NAT-3	4/28/2011	14:40	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
NAT-4	5/2/2011	9:55	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
RAB-MW1	Well Not Sampled																	
RAB-MW2	4/28/2011	10:05	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
RAB-MW3	4/28/2011	12:15	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
RAB-MW4	4/28/2011	11:00	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
SDB-MW-1	4/26/2011	14:25	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
SDB-MW-2	4/26/2011	15:20	1	NS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SDB-MW-3	4/26/2011	16:10	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
VFSP-MW1	4/29/2011	9:15	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
WWL-1	4/27/2011	14:35	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
WWL-2	4/27/2011	12:45	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
WWL-3U	4/27/2011	14:30	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
WWL-3L	4/27/2011	16:25	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
LF-1	4/27/2011	9:15	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
LF-2	4/27/2011	11:10	1	NS	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
LF-3	4/27/2011	12:20	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
LF-4	4/27/2011	10:50	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
LF-5	4/27/2011	9:30	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
QA/QC Samples																		
Equipment Blank	4/27/2011	14:30	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	4/29/2011	11:40	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
Trip Blank 1	4/26/2011	NA	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trip Blank 2	4/27/2011	NA	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trip Blank 3	4/28/2011	NA	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trip Blank 4	4/29/2011	NA	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trip Blank	5/2/2011	NA	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Field Blank (MW-10)	4/28/2011	14:30	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
Field Blank (MW-5)	4/29/2011	11:50	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
Field Dup (NAT-3)	4/28/2011	10:55	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
Field Dup (MW-5)	4/29/2011	11:50	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
MS/MSD (LF-5)	4/27/2011	9:30	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
MS/MSD (MW-4)	4/29/2011	10:50	1	1	1	1	1	1	1	1	1	NS	NS	NS	NS	NS	NS	NS
Total count			**47**	**30**	**42**	**42**	**42**	**42**	**42**	**42**	**42**	**10**	**10**	**10**	**10**	**10**	**10**	**10**

Notes:

NA, not analyzed; NS, not sampled

[1] Appendix IX Volatile Organic Compounds (VOCs) and tentatively-identified compounds (TICs) were analyzed via US EPA SW846 method

[2] Appendix IX Semi-Volatile Organic Compounds (SVOCs) and TICs were analyzed via US EPA SW 846 method 8270C (Low Level)

[3]Alcohols and glycohols were analyzed via US EPA SW846 method 8260B

[4]Total hazardous substances list metals were prepared by method 3030C and analyzed via method 6010B/7470A.

[5]Chloride was analyzed via US EPA MCAWW method 325.2

[6]Nitrates and Nitrites were analyzed via US EPA MCAWW method 353.2

[7]Sulfate was analyzed via US EPA MCAWW method 375.4

[8]Total Kjeldahl Nitrogen was analyzed via US EPA MCAWW method 351.2

[9]Total (and/or Dissolved Organic) Carbon (TOC) was analyzed via US EPA SW846 method 9060

[10]Total and dissolved metals/inorganics (i.e., Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Tl, Sn, V, Zn, Al, Mn, Fe, F, Br, Si, PO_4) were analyzed via US EPA SW846 method 6010B/6020

[11]Sulfide was analyzed via US EPA SW846 method 9034

[12]Alkalinity was analyzed via US EPA method SM 2320B

[13]Major anions (i.e., HCO3/CO3, SO4, Cl, NO3, NO2) were analyzed by US EPA SW845 method 9056A

[14]Total and dissolved major cations (i.e., Ca, Mg, Na, K, NH4) were analyzed via US EPA SW 846 method 6020

[15]Iron Speciation was analyzed via US EPA method SM 3500 FE D

Table 6
Groundwater Sampling Field Parameters
April/May 2011 Site-Wide Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

Well ID	Unit Completed	Easting X	Northing Y	Total Depth (feet)	Screened Interval	Top of Ground Surface	Top of PVC Casing	Depth to Water	Groundwater Elevation	Sample Date	Sample Time	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)
LF-1	LS	2224.691	1907.4428	40	30 - 40	13.04	16.19	9.39	6.8	4/27/11	9:15	6.33	0.998	0.73	17.18	-16.6	9.87
LF-2	LS	2008.418	1667.8973	39	29 - 39	13.79	16.36	10.66	5.7	4/27/11	11:10	6.43	0.737	0.55	17.96	-21.8	9.64
LF-3	LPUS	1658.283	1522.702	28	18 - 28	23.24	25.5	17.17	8.33	4/27/11	12:20	6.21	0.760	1.28	17.83	33.2	9.78
LF-4	LS	1397.191	1862.1975	57	47 - 57	33.79	36.81	27.97	8.84	4/27/11	10:50	6.27	0.226	0.28	15.85	-10.1	9.12
LF-5	LPUS	1653.78	2348.964	57	47 - 57	38.71	41.57	32.60	8.97	4/27/11	9:30	6.19	0.554	0.39	18.35	-34.6	7.29
MW-1	US	2286.012	3365.804	47	17 - 47	41.84	43.28	34.08	9.2	5/2/11	9:25	5.81	2.153	0.42	18.93	33.7	6.12
MW-2	LPUS	2144.28	2911.5651	53	33 - 53	40.45	42.46	33.20	9.26	4/29/11	14:30	5.65	3.491	1.24	19.45	16.8	8.95
MW-3	LPUS	2734.447	3203.389	53	33 - 53	33.13	34.82	25.76	9.06	4/26/11	15:55	6.54	0.521	0.49	18.78	-90.7	4.66
MW-4	LPUS	2878.538	3056.0416	52	32 - 52	32.38	33.67	24.73	8.94	4/29/11	10:45	6.28	2.450	0.77	17.42	-57.1	5.58
MW-4U	LPUS	2876.056	3047.7561	36	21 - 36	32.08	32.61	24.26	8.35	4/29/11	12:35	6.28	3.315	0.23	18.90	-61.6	6.72
MW-5	US	2829.879	2823.652	52	27 - 52	29.44	31.28	22.25	9.03	4/29/11	11:40	6.54	2.772	1.32	19.10	-106.9	9.81
MW-5U	UPUS	2839.605	2820.9738	26	16 - 26	29.34	30.32	22.16	8.16	4/29/11	10:40	6.91	7.800	0.92	19.74	-128.9	3.52
MW-5D	LS	2837.646	2833.8194	72	62 - 72	29.3	32.36	NM	NM	NS							
MW-6	US	3035.858	2846.6438	32	12 - 32	15.18	16.24	8.22	8.02	4/26/11	14:45	6.35	2.864	0.85	19.12	-54.9	8.39
MW-7L	LS	1859.046	3345.8267	82	60 - 82	42.76	44.54	34.36	10.18	4/28/11	16:40	6.34	0.480	0.45	18.16	-18.7	24.10
MW-7U	LS	1852.71	3348.2925	59	39 - 59	42.73	44.51	34.49	10.02	4/28/11	16:35	5.29	6.569	1.53	19.43	106.7	11.00
MW-8D	LS	3110.469	2823.821	51	41 - 51	17.97	20.01	11.50	8.51	4/26/11	9:25	6.83	0.207	0.27	19.80	-46.4	15.90
MW-8L	LPUS	3116.982	2822.5656	34	24 - 34	18.08	18.87	NM	NM	NS							
MW-8U	UPUS	3121.885	2821.2466	23	8 - 23	18.03	19.3	11.35	7.95	4/26/11	11:20	6.54	2.729	0.18	21.43	-96.6	12.90
MW-9	US	2553.911	2746.5331	48	28 - 48	39.57	41.22	32.25	8.97	4/29/11	14:05	6.23	2.349	0.31	16.90	-80.9	4.37
MW-10	US	3007.849	3265.2421	35	15 - 35	19.74	21.48	12.01	9.47	4/28/11	14:40	5.20	1.622	0.32	15.46	288.1	6.17
NAT-1	US	3105.427	4234.1733	48	25 - 45	40.95	43.05	28.87	14.18	4/28/11	14:40	5.68	0.977	0.56	22.33	167.3	13.20
NAT-2	US	3117.886	3833.4402	44	20 - 40	33.39	35.33	21.59	13.74	4/28/11	12:20	6.88	1.703	1.57	18.65	-96.1	13.60
NAT-3	US	3215.741	3773.0695	30	8 - 28	28.89	31.46	17.96	13.5	4/28/11	10:45	7.15	3.650	0.76	16.90	-118.1	5.92
NAT-4	US	3305.725	3909.8915	36	15 - 35	29.76	31.06	11.75	19.31	5/2/11	9:55	6.93	0.427	2.49	17.56	-4.0	68.20
RAB-MW1	NDA	3416.437	3761.6494	25	Unknown	25.4	28.38	17.94	10.44	NS							
RAB-MW2	NDA	3375.046	3557.0961	25.15	Unknown	23.49	25.6	11.73	13.87	4/28/11	10:05	6.02	4.101	1.68	19.48	28.9	5.73
RAB-MW3	NDA	3515.96	3720.2024	22.39	Unknown	27.23	29.76	15.47	14.29	4/28/11	12:15	5.96	0.843	0.65	16.79	-29.2	7.53
RAB-MW4	NDA	3499.768	3560.7157	25.65	Unknown	24.31	26.76	13.40	13.36	4/28/11	11:00	5.49	2.802	1.20	17.39	135.1	13.70
SDB-MW1	UPUS	3453.975	2736.641	35	25 - 35	29.34	32.03	21.16	10.87	4/26/11	14:25	5.45	0.876	0.39	16.53	-58.2	10.80
SDB-MW2	UPUS	3495.302	2470.733	32	22 - 32	25.5	28.37	20.20	8.17	4/26/11	15:20	5.97	2.260	0.81	17.16	84.3	3.12
SDB-MW3	UPUS	3422.849	2239.9699	35	25 - 35	25.94	28.5	20.70	7.8	4/26/11	16:10	5.61	1.788	1.42	17.30	117.3	8.20
VFSP-MW1	UPUS	2969.154	2081.1024	36	26 - 36	9.39	12.32	5.34	6.98	4/29/11	9:15	6.47	0.575	0.31	14.72	-33.7	2.24
WWL-1	LPUS	2055.218	2140.7035	43.5	33.5 - 43.5	32.88	32.42	27.68	4.74	4/27/11	14:35	6.86	2.751	0.40	19.07	-100.2	9.75
WWL-2	US	2391.568	2248.2478	40.4	30.4 - 40.4	32.2	31.8	30.32	1.48	4/27/11	12:45	6.58	6.208	0.30	18.47	28.9	12.00
WWL-3L	LPUS	2534.798	2662.92	42	38 - 42	37.94	40.2	31.22	8.98	4/27/11	16:25	5.86	3.445	1.62	17.93	-7.4	9.55
WWL-3U	UPUS	2537.956	2659.6171	33	21 - 33	37.94	40.22	31.22	9.00	4/27/11	14:30	6.03	2.639	1.08	20.37	-18.2	8.37

Notes:
US = upper sand (screened across >75% of unit)
LS = lower sand
LPUS = lower portion of upper sand
UPUS = upper portion of upper sand
NDA = no data available

NM, not measured; NS, not sampled; ºC, degrees Celsius;
SC, specific conductance; µS/cm, microsiemens per centimeter;
DO, dissolved oxygen; mg/L; milligrams per liter;
ORP, oxidation-reduction potential; mV, millivolts;
NTU, Nephelometric turbidity units

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	LF-1 4/27/2011			LF-2 4/27/2011			LF-3 4/27/2011			LF-4 4/27/2011			LF-5 4/27/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds (ug/L)																			
1,1,1,2-Tetrachloroethane	630-20-6	C	0.52	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
1,1,1-Trichloroethane	71-55-6	N	910	200	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
1,1,2-Trichloroethane	79-00-5	C	0.24	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
1,1-Dichloroethane	75-34-3	C	2.4	---	1	0.25	**2.4**	1	0.25	**0.28 J**	1	0.25	1 U	1	0.25	1 U	1	0.25	**0.3 J**
1,1-Dichloroethene	75-35-4	N	34	7	1	0.11	**2.5**	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	**0.12 J**
1,2,3-Trichlorobenzene	87-61-6	N	2.9	---	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U
1,2,3-Trichloropropane	96-18-4	C	0.00072	---	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U
1,2-Dibromo-3-Chloropropane	96-12-8	C	0.00032	0.2	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U
1,2-Dibromoethane	106-93-4	C	0.0065	0.05	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
1,2-Dichloroethane	107-06-2	C	0.15	5	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U
1,2-Dichloropropane	78-87-5	C	0.39	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
2-Butanone	78-93-3	N	710	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
2-Hexanone	591-78-6	N	4.7	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	N	200	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
Acetone	67-64-1	N	2,200	---	25	5	25 U	25	5	25 U	25	5	25 U	25	5	25 U	25	5	25 U
Acetonitrile	75-05-8	N	13	---	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U
Acrolein	107-02-8	N	0.0042	---	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U
Acrylonitrile	107-13-1	C	0.045	---	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U
Allyl chloride	107-05-1	C	0.65	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
Benzene	71-43-2	C	0.41	5	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Benzyl chloride	100-44-7	C	0.079	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U
Bromodichloromethane	75-27-4	C	0.12	80	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Bromoform	75-25-2	C	8.5	80	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
Bromomethane	74-83-9	N	0.87	---	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U
Carbon disulfide	75-15-0	N	100	---	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U
Carbon tetrachloride	56-23-5	C	0.44	5	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
Chlorobenzene	108-90-7	N	9.1	100	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Chloroethane	75-00-3	N	2,100	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U
Chloroform	67-66-3	C	0.19	80	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U
Chloromethane	74-87-3	N	19	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
Chloroprene	126-99-8	C	0.016	---	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	1	0.15	**0.16 J**	1	0.15	1 U	1	0.15	**0.2 J**	1	0.15	1 U	1	0.15	1 U
cis-1,3-Dichloropropene[3]	10061-01-5	---	0.43	---	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
Dibromochloromethane	124-48-1	C	0.15	80	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U
Dibromomethane	74-95-3	N	0.82	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
Dichlorodifluoromethane	75-71-8	N	20	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Diethyl ether	60-29-7	N	730	---	10	1	**78**	10	1	**30**	10	1	**5.9 J**	10	1	10 U	10	1	**35**
Ethyl methacrylate	97-63-2	N	53	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Ethylbenzene	100-41-4	C	1.5	700	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
Ethylene oxide	75-21-8	C	0.044	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U
Iodomethane	74-88-4	---	---	---	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U
Isobutyl alcohol	78-83-1	N	1,100	---	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**
Methacrylonitrile	126-98-7	N	0.1	---	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U
Methyl methacrylate	80-62-6	N	140	---	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U
Methyl tert-butyl ether	1634-04-4	C	12	---	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U
Methylene Chloride	75-09-2	C	4.8	5	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U
n-Heptane	142-82-5	---	---	---	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U
Pentachloroethane	76-01-7	C	0.75	---	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U
Propionitrile	107-12-0	---	---	---	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U
Propylene oxide	75-56-9	C	0.23	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U
Styrene	100-42-5	N	160	100	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
t-Butanol	75-65-0	---	12	---	5	2.6	**44**	5	2.6	**30**	100	52	**300**	5	2.6	5 U	5	2.6	**12**
Tetrachloroethene	127-18-4	C	0.11	5	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N			MW-1 5/2/2011			MW-2 4/29/2011			MW-3 4/26/2011			MW-4 4/29/2011			MW-4U 4/29/2011		
	CAS Number		[2]Tapwater	MCL	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds (ug/L)																			
1,1,1,2-Tetrachloroethane	630-20-6	C	0.52	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
1,1,1-Trichloroethane	71-55-6	N	910	200	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
1,1,2-Trichloroethane	79-00-5	C	0.24	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
1,1-Dichloroethane	75-34-3	C	2.4	---	1	0.25	**0.95 J**	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
1,1-Dichloroethene	75-35-4	N	34	7	1	0.11	**0.39 J**	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
1,2,3-Trichlorobenzene	87-61-6	N	2.9	---	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U
1,2,3-Trichloropropane	96-18-4	C	0.00072	---	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U
1,2-Dibromo-3-Chloropropane	96-12-8	C	0.00032	0.2	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U
1,2-Dibromoethane	106-93-4	C	0.0065	0.05	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
1,2-Dichloroethane	107-06-2	C	0.15	5	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U
1,2-Dichloropropane	78-87-5	C	0.39	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
2-Butanone	78-93-3	N	710	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
2-Hexanone	591-78-6	N	4.7	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	N	200	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
Acetone	67-64-1	N	2,200	---	25	5	25 U	25	5	25 U	25	5	25 U	25	5	25 U	25	5	**13 J**
Acetonitrile	75-05-8	N	13	---	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U
Acrolein	107-02-8	N	0.0042	---	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U
Acrylonitrile	107-13-1	C	0.045	---	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U
Allyl chloride	107-05-1	C	0.65	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
Benzene	71-43-2	C	0.41	5	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Benzyl chloride	100-44-7	C	0.079	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U
Bromodichloromethane	75-27-4	C	0.12	80	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Bromoform	75-25-2	C	8.5	80	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
Bromomethane	74-83-9	N	0.87	---	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U
Carbon disulfide	75-15-0	N	100	---	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U
Carbon tetrachloride	56-23-5	C	0.44	5	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
Chlorobenzene	108-90-7	N	9.1	100	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Chloroethane	75-00-3	N	2,100	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U
Chloroform	67-66-3	C	0.19	80	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U
Chloromethane	74-87-3	N	19	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
Chloroprene	126-99-8	C	0.016	---	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	1	0.15	1 U	1	0.15	**0.99 J**	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U
cis-1,3-Dichloropropene[3]	10061-01-5	---	0.43	---	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
Dibromochloromethane	124-48-1	C	0.15	80	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U
Dibromomethane	74-95-3	N	0.82	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
Dichlorodifluoromethane	75-71-8	N	20	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Diethyl ether	60-29-7	N	730	---	500	50	**1700**	2000	200	**10000**	10	1	10 U	500	50	**1400**	1000	100	**1700**
Ethyl methacrylate	97-63-2	N	53	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Ethylbenzene	100-41-4	C	1.5	700	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
Ethylene oxide	75-21-8	C	0.044	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U
Iodomethane	74-88-4	---	---	---	5	1	5 U	5	1	5 UJ	5	1	5 U	5	1	5 UJ	5	1	5 UJ
Isobutyl alcohol	78-83-1	N	1,100	---	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**
Methacrylonitrile	126-98-7	N	0.1	---	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U
Methyl methacrylate	80-62-6	N	140	---	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U
Methyl tert-butyl ether	1634-04-4	C	12	---	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U
Methylene Chloride	75-09-2	C	4.8	5	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U
n-Heptane	142-82-5	---	---	---	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U
Pentachloroethane	76-01-7	C	0.75	---	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U
Propionitrile	107-12-0	---	---	---	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U
Propylene oxide	75-56-9	C	0.23	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U
Styrene	100-42-5	N	160	100	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
t-Butanol	75-65-0	---	12	---	5	2.6	5 U	5	2.6	5 U	5	2.6	5 U	250	130	**2800**	500	260	**3400**
Tetrachloroethene	127-18-4	C	0.11	5	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N			MW-5 4/29/2011			MW-5 DUP 4/29/2011			MW-5U 4/29/2011			MW-6 4/26/2011			MW-7L 4/28/2011		
	CAS Number		[2]Tapwater	MCL	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds (ug/L)																			
1,1,1,2-Tetrachloroethane	630-20-6	C	0.52	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	20	6.6	20 U	1	0.33	1 U
1,1,1-Trichloroethane	71-55-6	N	910	200	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	20	10	20 U	1	0.5	1 U
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	20	3.6	20 U	1	0.18	1 U
1,1,2-Trichloroethane	79-00-5	C	0.24	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	20	2.6	20 U	1	0.13	1 U
1,1-Dichloroethane	75-34-3	C	2.4	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
1,1-Dichloroethene	75-35-4	N	34	7	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	1 U
1,2,3-Trichlorobenzene	87-61-6	N	2.9	---	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	20	7	20 U	1	0.35	1 U
1,2,3-Trichloropropane	96-18-4	C	0.00072	---	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	20	8.2	20 U	1	0.41	1 U
1,2-Dibromo-3-Chloropropane	96-12-8	C	0.00032	0.2	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	20	8.8	20 U	1	0.44	1 U
1,2-Dibromoethane	106-93-4	C	0.0065	0.05	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
1,2-Dichloroethane	107-06-2	C	0.15	5	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	20	2	20 U	1	0.1	1 U
1,2-Dichloropropane	78-87-5	C	0.39	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	20	2.6	20 U	1	0.13	1 U
2-Butanone	78-93-3	N	710	---	10	1	10 U	10	1	10 U	10	1	10 U	200	20	200 U	10	1	10 U
2-Hexanone	591-78-6	N	4.7	---	10	1	10 U	10	1	10 U	10	1	10 U	200	20	200 U	10	1	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	N	200	---	10	1	10 U	10	1	10 U	10	1	10 U	200	20	200 U	10	1	10 U
Acetone	67-64-1	N	2,200	---	25	5	25 U	25	5	25 U	25	5	25 U	500	100	500 U	25	5	25 U
Acetonitrile	75-05-8	N	13	---	40	10	40 U	40	10	40 U	40	10	40 U	800	200	800 U	40	10	40 U
Acrolein	107-02-8	N	0.0042	---	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	400	150	400 U	20	7.4	20 U
Acrylonitrile	107-13-1	C	0.045	---	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	400	140	400 U	20	7.2	20 U
Allyl chloride	107-05-1	C	0.65	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	20	4	20 U	1	0.2	1 U
Benzene	71-43-2	C	0.41	5	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
Benzyl chloride	100-44-7	C	0.079	---	1	1	1 U	1	1	1 U	1	1	1 U	20	20	20 U	1	1	1 U
Bromodichloromethane	75-27-4	C	0.12	80	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
Bromoform	75-25-2	C	8.5	80	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	20	10	20 U	1	0.5	1 U
Bromomethane	74-83-9	N	0.87	---	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	20	16	20 U	1	0.8	1 U
Carbon disulfide	75-15-0	N	100	---	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	40	12	40 U	2	0.6	2 U
Carbon tetrachloride	56-23-5	C	0.44	5	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	20	10	20 U	1	0.5	1 U
Chlorobenzene	108-90-7	N	9.1	100	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
Chloroethane	75-00-3	N	2,100	---	1	1	1 U	1	1	1 U	1	1	1 U	20	20	20 U	1	1	1 U
Chloroform	67-66-3	C	0.19	80	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	20	2.8	20 U	1	0.14	1 U
Chloromethane	74-87-3	N	19	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	20	6.6	20 U	1	0.33	1 U
Chloroprene	126-99-8	C	0.016	---	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	20	6	20 U	1	0.3	1 U
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	20	3	20 U	1	0.15	1 U
cis-1,3-Dichloropropene[3]	10061-01-5	---	0.43	---	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	1 U
Dibromochloromethane	124-48-1	C	0.15	80	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	20	2	20 U	1	0.1	1 U
Dibromomethane	74-95-3	N	0.82	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	20	4	20 U	1	0.2	1 U
Dichlorodifluoromethane	75-71-8	N	20	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
Diethyl ether	60-29-7	N	730	---	50	5	**200**	50	5	**220**	200	20	**650**	200	20	**1300**	10	1	10 U
Ethyl methacrylate	97-63-2	N	53	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
Ethylbenzene	100-41-4	C	1.5	700	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	1 U
Ethylene oxide	75-21-8	C	0.044	---	200	200	200 U	200	200	200 U	200	200	200 U	4000	4000	4000 U	200	200	200 U
Iodomethane	74-88-4	---	---	---	5	1	5 UJ	5	1	5 UJ	5	1	5 UJ	100	20	100 U	5	1	5 U
Isobutyl alcohol	78-83-1	N	1,100	---	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**	800	220	**800 R**	40	11	**40 R**
Methacrylonitrile	126-98-7	N	0.1	---	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	400	66	400 U	20	3.3	20 U
Methyl methacrylate	80-62-6	N	140	---	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	20	9.6	20 U	1	0.48	1 U
Methyl tert-butyl ether	1634-04-4	C	12	---	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U	200	4	200 U	10	0.2	10 U
Methylene Chloride	75-09-2	C	4.8	5	5	1	5 U	5	1	5 U	5	1	5 U	100	20	100 U	5	1	5 U
n-Heptane	142-82-5	---	---	---	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	20	8.4	20 U	1	0.42	1 U
Pentachloroethane	76-01-7	C	0.75	---	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	100	24	100 U	5	1.2	5 U
Propionitrile	107-12-0	---	---	---	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	400	92	400 U	20	4.6	20 U
Propylene oxide	75-56-9	C	0.23	---	200	200	200 U	200	200	200 U	200	200	200 U	4000	4000	4000 U	200	200	200 U
Styrene	100-42-5	N	160	100	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	1 U
t-Butanol	75-65-0	---	12	---	25	13	**150**	25	13	**180**	5	2.6	5 U	100	52	**1600**	5	2.6	5 U
Tetrachloroethene	127-18-4	C	0.11	5	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	20	3	20 U	1	0.15	1 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
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	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-7U 4/28/2011			MW-8D 4/26/2011			MW-8U 4/26/2011			MW-9 4/29/2011			MW-10 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds (ug/L)																			
1,1,1,2-Tetrachloroethane	630-20-6	C	0.52	---	1	0.33	1 U	1	0.33	1 U	20	6.6	20 U	1	0.33	1 U	1	0.33	1 U
1,1,1-Trichloroethane	71-55-6	N	910	200	1	0.5	1 U	1	0.5	1 U	20	10	20 U	1	0.5	1 U	1	0.5	1 U
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---	1	0.18	1 U	1	0.18	1 U	20	3.6	20 U	1	0.18	1 U	1	0.18	**0.5 J**
1,1,2-Trichloroethane	79-00-5	C	0.24	5	1	0.13	1 U	1	0.13	1 U	20	2.6	20 U	1	0.13	1 U	1	0.13	1 U
1,1-Dichloroethane	75-34-3	C	2.4	---	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	**0.83 J**	1	0.25	**1.4**
1,1-Dichloroethene	75-35-4	N	34	7	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	**0.65 J**	1	0.11	**1.8**
1,2,3-Trichlorobenzene	87-61-6	N	2.9	---	1	0.35	1 U	1	0.35	1 U	20	7	20 U	1	0.35	1 U	1	0.35	1 U
1,2,3-Trichloropropane	96-18-4	C	0.00072	---	1	0.41	1 U	1	0.41	1 U	20	8.2	20 U	1	0.41	1 U	1	0.41	1 U
1,2-Dibromo-3-Chloropropane	96-12-8	C	0.00032	0.2	1	0.44	1 U	1	0.44	1 U	20	8.8	20 U	1	0.44	1 U	1	0.44	1 U
1,2-Dibromoethane	106-93-4	C	0.0065	0.05	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U	1	0.25	1 U
1,2-Dichloroethane	107-06-2	C	0.15	5	1	0.1	1 U	1	0.1	1 U	20	2	20 U	1	0.1	1 U	1	0.1	**0.21 J**
1,2-Dichloropropane	78-87-5	C	0.39	5	1	0.13	1 U	1	0.13	1 U	20	2.6	20 U	1	0.13	1 U	1	0.13	1 U
2-Butanone	78-93-3	N	710	---	10	1	10 U	10	1	10 U	200	20	200 U	10	1	10 U	10	1	10 U
2-Hexanone	591-78-6	N	4.7	---	10	1	10 U	10	1	10 U	200	20	200 U	10	1	10 U	10	1	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	N	200	---	10	1	10 U	10	1	10 U	200	20	200 U	10	1	10 U	10	1	10 U
Acetone	67-64-1	N	2,200	---	25	5	25 U	25	5	25 U	500	100	500 U	25	5	25 U	25	5	25 U
Acetonitrile	75-05-8	N	13	---	40	10	40 U	40	10	40 U	800	200	800 U	40	10	40 U	40	10	40 U
Acrolein	107-02-8	N	0.0042	---	20	7.4	20 U	20	7.4	20 U	400	150	400 U	20	7.4	20 U	20	7.4	20 U
Acrylonitrile	107-13-1	C	0.045	---	20	7.2	20 U	20	7.2	20 U	400	140	400 U	20	7.2	20 U	20	7.2	20 U
Allyl chloride	107-05-1	C	0.65	---	1	0.2	1 U	1	0.2	1 U	20	4	20 U	1	0.2	1 U	1	0.2	1 U
Benzene	71-43-2	C	0.41	5	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U	1	0.25	1 U
Benzyl chloride	100-44-7	C	0.079	---	1	1	1 U	1	1	1 U	20	20	20 U	1	1	1 U	1	1	1 U
Bromodichloromethane	75-27-4	C	0.12	80	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U	1	0.25	1 U
Bromoform	75-25-2	C	8.5	80	1	0.5	1 U	1	0.5	1 U	20	10	20 U	1	0.5	1 U	1	0.5	1 U
Bromomethane	74-83-9	N	0.87	---	1	0.8	1 U	1	0.8	1 U	20	16	20 U	1	0.8	1 U	1	0.8	1 U
Carbon disulfide	75-15-0	N	100	---	2	0.6	2 U	2	0.6	2 U	40	12	40 U	2	0.6	2 U	2	0.6	2 U
Carbon tetrachloride	56-23-5	C	0.44	5	1	0.5	1 U	1	0.5	1 U	20	10	20 U	1	0.5	1 U	1	0.5	1 U
Chlorobenzene	108-90-7	N	9.1	100	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U	1	0.25	1 U
Chloroethane	75-00-3	N	2,100	---	1	1	1 U	1	1	1 U	20	20	20 U	1	1	1 U	1	1	1 U
Chloroform	67-66-3	C	0.19	80	1	0.14	1 U	1	0.14	1 U	20	2.8	20 U	1	0.14	1 U	1	0.14	**0.94 J**
Chloromethane	74-87-3	N	19	---	1	0.33	1 U	1	0.33	1 U	20	6.6	20 U	1	0.33	1 U	1	0.33	1 U
Chloroprene	126-99-8	C	0.016	---	1	0.3	1 U	1	0.3	1 U	20	6	20 U	1	0.3	1 U	1	0.3	1 U
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	1	0.15	1 U	1	0.15	1 U	20	3	20 U	1	0.15	**0.21 J**	1	0.15	**0.36 J**
cis-1,3-Dichloropropene[3]	10061-01-5	---	0.43	---	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	1 U	1	0.11	1 U
Dibromochloromethane	124-48-1	C	0.15	80	1	0.1	1 U	1	0.1	1 U	20	2	20 U	1	0.1	1 U	1	0.1	1 U
Dibromomethane	74-95-3	N	0.82	---	1	0.2	1 U	1	0.2	1 U	20	4	20 U	1	0.2	1 U	1	0.2	1 U
Dichlorodifluoromethane	75-71-8	N	20	---	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U	1	0.25	1 U
Diethyl ether	60-29-7	N	730	---	10	1	**93**	10	1	10 U	200	20	**1800**	500	50	**3300**	10	1	**20**
Ethyl methacrylate	97-63-2	N	53	---	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U	1	0.25	1 U
Ethylbenzene	100-41-4	C	1.5	700	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	1 U	1	0.11	1 U
Ethylene oxide	75-21-8	C	0.044	---	200	200	200 U	200	200	200 U	4000	4000	4000 U	200	200	200 U	200	200	200 U
Iodomethane	74-88-4	---	---	---	5	1	5 U	5	1	5 U	100	20	100 UJ	5	1	5 UJ	5	1	5 U
Isobutyl alcohol	78-83-1	N	1,100	---	40	11	**40 R**	40	11	**40 R**	800	220	**800 R**	40	11	**40 R**	40	11	**40 R**
Methacrylonitrile	126-98-7	N	0.1	---	20	3.3	20 U	20	3.3	20 U	400	66	400 U	20	3.3	20 U	20	3.3	20 U
Methyl methacrylate	80-62-6	N	140	---	1	0.48	1 U	1	0.48	1 U	20	9.6	20 U	1	0.48	1 U	1	0.48	1 U
Methyl tert-butyl ether	1634-04-4	C	12	---	10	0.2	10 U	10	0.2	10 U	200	4	200 U	10	0.2	10 U	10	0.2	10 U
Methylene Chloride	75-09-2	C	4.8	5	5	1	5 U	5	1	5 U	100	20	100 U	5	1	5 U	5	1	5 U
n-Heptane	142-82-5	---	---	---	1	0.42	1 U	1	0.42	1 U	20	8.4	20 U	1	0.42	1 U	1	0.42	1 U
Pentachloroethane	76-01-7	C	0.75	---	5	1.2	5 U	5	1.2	5 U	100	24	100 U	5	1.2	5 U	5	1.2	5 U
Propionitrile	107-12-0	---	---	---	20	4.6	20 U	20	4.6	20 U	400	92	400 U	20	4.6	20 U	20	4.6	20 U
Propylene oxide	75-56-9	C	0.23	---	200	200	200 U	200	200	200 U	4000	4000	4000 U	200	200	200 U	200	200	200 U
Styrene	100-42-5	N	160	100	1	0.11	1 U	1	0.11	1 U	20	2.2	20 U	1	0.11	1 U	1	0.11	1 U
t-Butanol	75-65-0	---	12	---	5	2.6	**6.1**	5	2.6	5 U	100	52	**1800**	250	130	**130 J**	5	2.6	5 U
Tetrachloroethene	127-18-4	C	0.11	5	1	0.15	1 U	1	0.15	1 U	20	3	20 U	1	0.15	1 U	1	0.15	**13**

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
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		[1]C or N	[2]Tapwater	MCL	NAT-1 4/28/2011			NAT-2 4/28/2011			NAT-3 4/28/2011			NAT-3 DUP 4/28/2011			NAT-4 5/2/2011			NAT-4 (Filtered) 5/2/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds (ug/L)																						
1,1,1,2-Tetrachloroethane	630-20-6	C	0.52	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U			
1,1,1-Trichloroethane	71-55-6	N	910	200	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U			
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U			
1,1,2-Trichloroethane	79-00-5	C	0.24	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U			
1,1-Dichloroethane	75-34-3	C	2.4	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
1,1-Dichloroethene	75-35-4	N	34	7	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U			
1,2,3-Trichlorobenzene	87-61-6	N	2.9	---	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U			
1,2,3-Trichloropropane	96-18-4	C	0.00072	---	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U			
1,2-Dibromo-3-Chloropropane	96-12-8	C	0.00032	0.2	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U			
1,2-Dibromoethane	106-93-4	C	0.0065	0.05	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
1,2-Dichloroethane	107-06-2	C	0.15	5	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U			
1,2-Dichloropropane	78-87-5	C	0.39	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U			
2-Butanone	78-93-3	N	710	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U			
2-Hexanone	591-78-6	N	4.7	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U			
4-Methyl-2-pentanone (MIBK)	108-10-1	N	200	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U			
Acetone	67-64-1	N	2,200	---	25	5	25 U	25	5	**35**	25	5	**34**	25	5	**30**	25	5	**6.1 J**			
Acetonitrile	75-05-8	N	13	---	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U			
Acrolein	107-02-8	N	0.0042	---	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U			
Acrylonitrile	107-13-1	C	0.045	---	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U			
Allyl chloride	107-05-1	C	0.65	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U			
Benzene	71-43-2	C	0.41	5	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
Benzyl chloride	100-44-7	C	0.079	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U			
Bromodichloromethane	75-27-4	C	0.12	80	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
Bromoform	75-25-2	C	8.5	80	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U			
Bromomethane	74-83-9	N	0.87	---	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U			
Carbon disulfide	75-15-0	N	100	---	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U			
Carbon tetrachloride	56-23-5	C	0.44	5	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U			
Chlorobenzene	108-90-7	N	9.1	100	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
Chloroethane	75-00-3	N	2,100	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U			
Chloroform	67-66-3	C	0.19	80	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U			
Chloromethane	74-87-3	N	19	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U			
Chloroprene	126-99-8	C	0.016	---	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U			
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	1	0.15	1 U	1	0.15	**1.1**	1	0.15	1 U	1	0.15	**0.2 J**	1	0.15	1 U			
cis-1,3-Dichloropropene[3]	10061-01-5	---	0.43	---	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U			
Dibromochloromethane	124-48-1	C	0.15	80	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U			
Dibromomethane	74-95-3	N	0.82	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U			
Dichlorodifluoromethane	75-71-8	N	20	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
Diethyl ether	60-29-7	N	730	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	**1.4 J**			
Ethyl methacrylate	97-63-2	N	53	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
Ethylbenzene	100-41-4	C	1.5	700	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U			
Ethylene oxide	75-21-8	C	0.044	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U			
Iodomethane	74-88-4	---	---	---	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U			
Isobutyl alcohol	78-83-1	N	1,100	---	40	11	**40 R**	40	11	**40 R**	40	11	40 U	40	11	**40 R**	40	11	**40 R**			
Methacrylonitrile	126-98-7	N	0.1	---	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U			
Methyl methacrylate	80-62-6	N	140	---	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U			
Methyl tert-butyl ether	1634-04-4	C	12	---	10	0.2	10 U	10	0.2	**2.6 J**	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U			
Methylene Chloride	75-09-2	C	4.8	5	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U			
n-Heptane	142-82-5	---	---	---	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U			
Pentachloroethane	76-01-7	C	0.75	---	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U			
Propionitrile	107-12-0	---	---	---	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U			
Propylene oxide	75-56-9	C	0.23	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U			
Styrene	100-42-5	N	160	100	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U			
t-Butanol	75-65-0	---	12	---	5	2.6	5 U	2500	1300	**18000**	20000	10000	**83000**	20000	10000	**94000**	50	26	**370**			
Tetrachloroethene	127-18-4	C	0.11	5	1	0.15	1 U	1	0.15	1 U	1	0.15	**0.3 J**	1	0.15	**1.3**	1	0.15	1 U			

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
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		[1]C or N			RAB-MW2 4/28/2011			RAB-MW3 4/28/2011			RAB-MW4 4/28/2011			SDB-MW-1 4/26/2011			SDB-MW-2 4/26/2011		
	CAS Number		[2]Tapwater	MCL	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds (ug/L)																			
1,1,1,2-Tetrachloroethane	630-20-6	C	0.52	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
1,1,1-Trichloroethane	71-55-6	N	910	200	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
1,1,2-Trichloroethane	79-00-5	C	0.24	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
1,1-Dichloroethane	75-34-3	C	2.4	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
1,1-Dichloroethene	75-35-4	N	34	7	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
1,2,3-Trichlorobenzene	87-61-6	N	2.9	---	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U	1	0.35	1 U
1,2,3-Trichloropropane	96-18-4	C	0.00072	---	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U	1	0.41	1 U
1,2-Dibromo-3-Chloropropane	96-12-8	C	0.00032	0.2	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U	1	0.44	1 U
1,2-Dibromoethane	106-93-4	C	0.0065	0.05	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
1,2-Dichloroethane	107-06-2	C	0.15	5	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U
1,2-Dichloropropane	78-87-5	C	0.39	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
2-Butanone	78-93-3	N	710	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
2-Hexanone	591-78-6	N	4.7	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	N	200	---	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U	10	1	10 U
Acetone	67-64-1	N	2,200	---	25	5	**6.5 J**	25	5	25 U	25	5	25 U	25	5	**6.9 J**	25	5	25 U
Acetonitrile	75-05-8	N	13	---	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U	40	10	40 U
Acrolein	107-02-8	N	0.0042	---	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U	20	7.4	20 U
Acrylonitrile	107-13-1	C	0.045	---	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U	20	7.2	20 U
Allyl chloride	107-05-1	C	0.65	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
Benzene	71-43-2	C	0.41	5	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Benzyl chloride	100-44-7	C	0.079	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U
Bromodichloromethane	75-27-4	C	0.12	80	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Bromoform	75-25-2	C	8.5	80	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
Bromomethane	74-83-9	N	0.87	---	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U	1	0.8	1 U
Carbon disulfide	75-15-0	N	100	---	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U	2	0.6	2 U
Carbon tetrachloride	56-23-5	C	0.44	5	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U	1	0.5	1 U
Chlorobenzene	108-90-7	N	9.1	100	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Chloroethane	75-00-3	N	2,100	---	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U	1	1	1 U
Chloroform	67-66-3	C	0.19	80	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U	1	0.14	1 U
Chloromethane	74-87-3	N	19	---	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
Chloroprene	126-99-8	C	0.016	---	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U	1	0.3	1 U
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U
cis-1,3-Dichloropropene[3]	10061-01-5	---	0.43	---	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
Dibromochloromethane	124-48-1	C	0.15	80	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U	1	0.1	1 U
Dibromomethane	74-95-3	N	0.82	---	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
Dichlorodifluoromethane	75-71-8	N	20	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Diethyl ether	60-29-7	N	730	---	10	1	**10**	10	1	**1.8 J**	10	1	**4.3 J**	10	1	10 U	10	1	10 U
Ethyl methacrylate	97-63-2	N	53	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Ethylbenzene	100-41-4	C	1.5	700	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
Ethylene oxide	75-21-8	C	0.044	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U
Iodomethane	74-88-4	---	---	---	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U
Isobutyl alcohol	78-83-1	N	1,100	---	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**	40	11	**40 R**
Methacrylonitrile	126-98-7	N	0.1	---	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U	20	3.3	20 U
Methyl methacrylate	80-62-6	N	140	---	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U	1	0.48	1 U
Methyl tert-butyl ether	1634-04-4	C	12	---	10	0.2	**0.68 J**	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U	10	0.2	10 U
Methylene Chloride	75-09-2	C	4.8	5	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U	5	1	5 U
n-Heptane	142-82-5	---	---	---	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U	1	0.42	1 U
Pentachloroethane	76-01-7	C	0.75	---	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U	5	1.2	5 U
Propionitrile	107-12-0	---	---	---	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U	20	4.6	20 U
Propylene oxide	75-56-9	C	0.23	---	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U	200	200	200 U
Styrene	100-42-5	N	160	100	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U	1	0.11	1 U
t-Butanol	75-65-0	---	12	---	25	13	**160**	25	13	**270**	5	2.6	5 U	5	2.6	**3.1 J**	5	2.6	5 U
Tetrachloroethene	127-18-4	C	0.11	5	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U	1	0.15	1 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N	[2]Tapwater	MCL	SDB-MW-3 4/26/2011			WWL-1 4/27/2011			WWL-2 4/27/2011			WWL-3L 4/27/2011			WWL-3U 4/27/2011			VFSP-MW-1 4/29/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds (ug/L)																						
1,1,1,2-Tetrachloroethane	630-20-6	C	0.52	---	1	0.33	1 U	5	1.6	5 U	1	0.33	1 U	100	33	100 U	10	3.3	10 U	1	0.33	1 U
1,1,1-Trichloroethane	71-55-6	N	910	200	1	0.5	1 U	5	2.5	5 U	1	0.5	1 U	100	50	100 U	10	5	10 U	1	0.5	1 U
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---	1	0.18	1 U	5	0.9	5 U	1	0.18	1 U	100	18	100 U	10	1.8	10 U	1	0.18	1 U
1,1,2-Trichloroethane	79-00-5	C	0.24	5	1	0.13	1 U	5	0.65	5 U	1	0.13	1 U	100	13	100 U	10	1.3	10 U	1	0.13	1 U
1,1-Dichloroethane	75-34-3	C	2.4	---	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
1,1-Dichloroethene	75-35-4	N	34	7	1	0.11	1 U	5	0.55	5 U	1	0.11	1 U	100	11	100 U	10	1.1	10 U	1	0.11	1 U
1,2,3-Trichlorobenzene	87-61-6	N	2.9	---	1	0.35	1 U	5	1.8	5 U	1	0.35	1 U	100	35	100 U	10	3.5	10 U	1	0.35	1 U
1,2,3-Trichloropropane	96-18-4	C	0.00072	---	1	0.41	1 U	5	2	5 U	1	0.41	1 U	100	41	100 U	10	4.1	10 U	1	0.41	1 U
1,2-Dibromo-3-Chloropropane	96-12-8	C	0.00032	0.2	1	0.44	1 U	5	2.2	5 U	1	0.44	1 U	100	44	100 U	10	4.4	10 U	1	0.44	1 U
1,2-Dibromoethane	106-93-4	C	0.0065	0.05	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
1,2-Dichloroethane	107-06-2	C	0.15	5	1	0.1	1 U	5	0.5	5 U	1	0.1	1 U	100	10	100 U	10	1	10 U	1	0.1	1 U
1,2-Dichloropropane	78-87-5	C	0.39	5	1	0.13	1 U	5	0.65	5 U	1	0.13	1 U	100	13	100 U	10	1.3	10 U	1	0.13	1 U
2-Butanone	78-93-3	N	710	---	10	1	10 U	50	5	50 U	10	1	10 U	1000	100	1000 U	100	10	100 U	10	1	10 U
2-Hexanone	591-78-6	N	4.7	---	10	1	10 U	50	5	50 U	10	1	10 U	1000	100	1000 U	100	10	100 U	10	1	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	N	200	---	10	1	10 U	50	5	50 U	10	1	10 U	1000	100	1000 U	100	10	100 U	10	1	10 U
Acetone	67-64-1	N	2,200	---	25	5	25 U	120	25	120 U	25	5	25 U	2500	500	2500 U	250	50	250 U	25	5	25 U
Acetonitrile	75-05-8	N	13	---	40	10	40 U	200	50	200 U	40	10	40 U	4000	1000	4000 U	400	100	400 U	40	10	40 U
Acrolein	107-02-8	N	0.0042	---	20	7.4	20 U	100	37	100 U	20	7.4	20 U	2000	740	2000 U	200	74	200 U	20	7.4	20 U
Acrylonitrile	107-13-1	C	0.045	---	20	7.2	20 U	100	36	100 U	20	7.2	20 U	2000	720	2000 U	200	72	200 U	20	7.2	20 U
Allyl chloride	107-05-1	C	0.65	---	1	0.2	1 U	5	1	5 U	1	0.2	1 U	100	20	100 U	10	2	10 U	1	0.2	1 U
Benzene	71-43-2	C	0.41	5	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
Benzyl chloride	100-44-7	C	0.079	---	1	1	1 U	5	5	5 U	1	1	1 U	100	100	100 U	10	10	10 U	1	1	1 U
Bromodichloromethane	75-27-4	C	0.12	80	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
Bromoform	75-25-2	C	8.5	80	1	0.5	1 U	5	2.5	5 U	1	0.5	1 U	100	50	100 U	10	5	10 U	1	0.5	1 U
Bromomethane	74-83-9	N	0.87	---	1	0.8	1 U	5	4	5 U	1	0.8	1 U	100	80	100 U	10	8	10 U	1	0.8	1 U
Carbon disulfide	75-15-0	N	100	---	2	0.6	2 U	10	3	10 U	2	0.6	2 U	200	60	200 U	20	6	20 U	2	0.6	2 U
Carbon tetrachloride	56-23-5	C	0.44	5	1	0.5	1 U	5	2.5	5 U	1	0.5	1 U	100	50	100 U	10	5	10 U	1	0.5	1 U
Chlorobenzene	108-90-7	N	9.1	100	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
Chloroethane	75-00-3	N	2,100	---	1	1	1 U	5	5	5 U	1	1	1 U	100	100	100 U	10	10	10 U	1	1	1 U
Chloroform	67-66-3	C	0.19	80	1	0.14	1 U	5	0.7	5 U	1	0.14	1 U	100	14	100 U	10	1.4	10 U	1	0.14	1 U
Chloromethane	74-87-3	N	19	---	1	0.33	1 U	5	1.6	5 U	1	0.33	1 U	100	33	100 U	10	3.3	10 U	1	0.33	1 U
Chloroprene	126-99-8	C	0.016	---	1	0.3	1 U	5	1.5	5 U	1	0.3	1 U	100	30	100 U	10	3	10 U	1	0.3	1 U
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	1	0.15	1 U	5	0.75	5 U	1	0.15	1 U	100	15	100 U	10	1.5	10 U	1	0.15	1 U
cis-1,3-Dichloropropene[3]	10061-01-5	---	0.43	---	1	0.11	1 U	5	0.55	5 U	1	0.11	1 U	100	11	100 U	10	1.1	10 U	1	0.11	1 U
Dibromochloromethane	124-48-1	C	0.15	80	1	0.1	1 U	5	0.5	5 U	1	0.1	1 U	100	10	100 U	10	1	10 U	1	0.1	1 U
Dibromomethane	74-95-3	N	0.82	---	1	0.2	1 U	5	1	5 U	1	0.2	1 U	100	20	100 U	10	2	10 U	1	0.2	1 U
Dichlorodifluoromethane	75-71-8	N	20	---	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
Diethyl ether	60-29-7	N	730	---	10	1	**440**	50	5	**100**	10	1	10 U	1000	100	**8100**	100	10	**810**	10	1	**69**
Ethyl methacrylate	97-63-2	N	53	---	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
Ethylbenzene	100-41-4	C	1.5	700	1	0.11	1 U	5	0.55	5 U	1	0.11	1 U	100	11	100 U	10	1.1	10 U	1	0.11	1 U
Ethylene oxide	75-21-8	C	0.044	---	200	200	200 U	1000	1000	1000 U	200	200	200 U	20000	20000	20000 U	2000	2000	2000 U	200	200	200 U
Iodomethane	74-88-4	---	---	---	5	1	5 U	25	5	25 U	5	1	5 U	500	100	500 U	50	10	50 U	5	1	5 UJ
Isobutyl alcohol	78-83-1	N	1,100	---	40	11	**40 R**	200	55	**200 R**	40	11	**40 R**	4000	1100	**4000 R**	400	110	**400 R**	40	11	**40 R**
Methacrylonitrile	126-98-7	N	0.1	---	20	3.3	20 U	100	16	100 U	20	3.3	20 U	2000	330	2000 U	200	33	200 U	20	3.3	20 U
Methyl methacrylate	80-62-6	N	140	---	1	0.48	1 U	5	2.4	5 U	1	0.48	1 U	100	48	100 U	10	4.8	10 U	1	0.48	1 U
Methyl tert-butyl ether	1634-04-4	C	12	---	10	0.2	10 U	50	1	50 U	10	0.2	10 U	1000	20	1000 U	100	2	100 U	10	0.2	10 U
Methylene Chloride	75-09-2	C	4.8	5	5	1	5 U	25	5	25 U	5	1	5 U	500	100	500 U	50	10	50 U	5	1	5 U
n-Heptane	142-82-5	---	---	---	1	0.42	1 U	5	2.1	5 U	1	0.42	1 U	100	42	100 U	10	4.2	10 U	1	0.42	1 U
Pentachloroethane	76-01-7	C	0.75	---	5	1.2	5 U	25	6	25 U	5	1.2	5 U	500	120	500 U	50	12	50 U	5	1.2	5 U
Propionitrile	107-12-0	---	---	---	20	4.6	20 U	100	23	100 U	20	4.6	20 U	2000	460	2000 U	200	46	200 U	20	4.6	20 U
Propylene oxide	75-56-9	C	0.23	---	200	200	200 U	1000	1000	1000 U	200	200	200 U	20000	20000	20000 U	2000	2000	2000 U	200	200	200 U
Styrene	100-42-5	N	160	100	1	0.11	1 U	5	0.55	5 U	1	0.11	1 U	100	11	100 U	10	1.1	10 U	1	0.11	1 U
t-Butanol	75-65-0	---	12	---	100	52	**790**	25	13	**330**	5	2.6	**73**	500	260	500 U	50	26	**30 J**	5	2.6	**6.3**
Tetrachloroethene	127-18-4	C	0.11	5	1	0.15	1 U	5	0.75	5 U	1	0.15	1 U	100	15	100 U	10	1.5	10 U	1	0.15	1 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	LF-1 4/27/2011			LF-2 4/27/2011			LF-3 4/27/2011			LF-4 4/27/2011			LF-5 4/27/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds - continued (ug/L)																			
Toluene	108-88-3	N	230	1,000	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
trans-1,2-Dichloroethene	156-60-5	N	11	100	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
trans-1,3-Dichloropropene[3]	10061-02-6	---	0.43	---	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U
trans-1,4-Dichloro-2-butene	110-57-6	C	0.0012	---	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U
Trichloroethylene	79-01-6	C	2	5	1	0.13	**0.62 J**	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
Trichlorofluoromethane	75-69-4	N	130	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vinyl acetate	108-05-4	N	41	---	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U
Vinyl chloride	75-01-4	C	0.016	2	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
Xylenes, Total	1330-20-7	N	20	10,000	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U
Volatile Organic Compounds-TIC																			
Methyl naphthalene isomer	---	---	---	---			**11 J**												
Tetrahydrofuran	109-99-9	---	---	---															
Unknown	---	---	---	---															
Unknown Alkane	---	---	---	---															
Semivolatile Organic Compounds (ug/L)																			
1,1'-Biphenyl	92-52-4	N	0.083	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
1,2,4,5-Tetrachlorobenzene	95-94-3	N	1.1	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
1,2,4-Trichlorobenzene	120-82-1	C	2.3	70	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
1,2-Dichlorobenzene	95-50-1	N	37	600	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
1,3,5-Trinitrobenzene	99-35-4	N	110	---	0.95	0.48	0.95 U				0.95	0.47	0.95 U	0.95	0.48	0.95 U	1	0.5	1 U
1,3-Dichlorobenzene[3]	541-73-1	---	0.43	75	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
1,4-Dichlorobenzene	106-46-7	C	0.43	75	0.95	0.095	**0.16 B**				0.95	0.095	**0.12 B**	0.95	0.095	**0.11 B**	1	0.1	**0.28 B**
1,4-Dioxane	123-91-1	C	0.67	---	1.9	0.29	**2.3**				1.9	0.29	**14**	1.9	0.3	1.9 U	2	0.31	**0.83 J**
1,4-Naphthoquinone	130-15-4	---	---	---	0.95	0.48	0.95 U				0.95	0.47	0.95 U	0.95	0.48	0.95 U	1	0.5	1 U
1-Naphthalenamine	134-32-7	---	---	---	4.8	1.2	4.8 U				4.7	1.2	4.7 U	4.8	1.2	4.8 U	5	1.3	5 U
2,2'-oxybis[1-chloropropane]	108-60-1	C	0.32	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
2,3,4,6-Tetrachlorophenol	58-90-2	N	110	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
2,4,5-Trichlorophenol	95-95-4	N	370	---	0.95	0.11	0.95 U				0.95	0.11	0.95 U	0.95	0.11	0.95 U	1	0.12	1 U
2,4,6-Trichlorophenol	88-06-2	C	6.1	---	0.95	0.16	0.95 U				0.95	0.16	0.95 U	0.95	0.16	0.95 U	1	0.17	1 U
2,4-Dichlorophenol	120-83-2	N	11	---	0.95	0.095	0.95 UL				0.95	0.095	0.95 UL	0.95	0.095	0.95 UL	1	0.1	1 UL
2,4-Dimethylphenol	105-67-9	N	73	---	1.9	0.66	1.9 UL				1.9	0.65	1.9 UL	1.9	0.66	1.9 UL	2	0.69	2 UL
2,4-Dinitrophenol	51-28-5	N	7.3	---	9.5	1	9.5 U				9.5	1	9.5 U	9.5	1	9.5 U	10	1.1	10 U
2,4-Dinitrotoluene	121-14-2	C	0.22	---	0.95	0.11	0.95 U				0.95	0.11	0.95 U	0.95	0.11	0.95 U	1	0.12	1 U
2,6-Dichlorophenol	87-65-0	---	---	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
2,6-Dinitrotoluene	606-20-2	N	3.7	---	0.95	0.12	0.95 U				0.95	0.12	0.95 U	0.95	0.12	0.95 U	1	0.13	1 U
2-Acetylaminofluorene	53-96-3	C	0.018	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
2-Chloronaphthalene	91-58-7	N	290	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
2-Chlorophenol	95-57-8	N	18	---	0.95	0.11	0.95 U				0.95	0.11	0.95 U	0.95	0.11	0.95 U	1	0.12	1 U
2-Methylnaphthalene	91-57-6	N	15	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
2-Methylphenol	95-48-7	N	180	---	1.9	0.7	1.9 U				1.9	0.7	1.9 U	1.9	0.7	1.9 U	2	0.74	2 U
2-Naphthalenamine	91-59-8	C	0.037	---	4.8	1.2	4.8 U				4.7	1.2	4.7 U	4.8	1.2	4.8 U	5	1.3	5 U
2-Nitroaniline	88-74-4	N	37	---	0.95	0.15	0.95 U				0.95	0.15	0.95 U	0.95	0.15	0.95 U	1	0.16	1 U
2-Nitrophenol	88-75-5	---	---	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
2-Picoline	109-06-8	---	---	---	1.9	0.14	1.9 U				1.9	0.14	1.9 U	1.9	0.14	1.9 U	2	0.15	2 U
2-sec-Butyl-4,6-dinitrophenol	88-85-7	N	3.7	7	1.9	0.14	1.9 U				1.9	0.14	1.9 U	1.9	0.14	1.9 U	2	0.15	2 U
3 & 4 Methylphenol	15831-10-4	---	---	---	1.9	0.63	1.9 UL				1.9	0.62	1.9 UL	1.9	0.63	1.9 UL	2	0.66	2 UL
3,3'-Dichlorobenzidine	91-94-1	C	0.15	---	19	1.9	19 U				19	1.9	19 U	19	1.9	19 U	20	2	20 U
3,3'-Dimethylbenzidine	119-93-7	C	0.0061	---	19	4.8	19 U				19	4.7	19 U	19	4.8	19 U	20	5	20 U
3-Methylcholanthrene	56-49-5	C	0.00098	---	0.95	0.48	0.95 U				0.95	0.47	0.95 U	0.95	0.48	0.95 U	1	0.5	1 U
3-Nitroaniline	99-09-2	---	---	---	4.8	0.15	4.8 U				4.7	0.15	4.7 U	4.8	0.15	4.8 U	5	0.16	5 U
4,6-Dinitro-2-methylphenol	534-52-1	N	0.29	---	4.8	0.12	4.8 U				4.7	0.12	4.7 U	4.8	0.12	4.8 U	5	0.13	5 U
4-Aminobiphenyl	92-67-1	C	0.0032	---	4.8	0.29	4.8 U				4.7	0.29	4.7 U	4.8	0.3	4.8 U	5	0.31	5 U
4-Bromophenyl phenyl ether	101-55-3	---	---	---	0.95	0.11	0.95 U				0.95	0.11	0.95 U	0.95	0.11	0.95 U	1	0.12	1 U
4-Chloro-3-methylphenol	59-50-7	N	370	---	0.95	0.11	0.95 U				0.95	0.11	0.95 U	0.95	0.11	0.95 U	1	0.12	1 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N	[2]Tapwater	MCL	MW-1 5/2/2011			MW-2 4/29/2011			MW-3 4/26/2011			MW-4 4/29/2011			MW-4U 4/29/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds - continued (ug/L)																			
Toluene	108-88-3	N	230	1,000	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
trans-1,2-Dichloroethene	156-60-5	N	11	100	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
trans-1,3-Dichloropropene[3]	10061-02-6	---	0.43	---	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U
trans-1,4-Dichloro-2-butene	110-57-6	C	0.0012	---	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U
Trichloroethylene	79-01-6	C	2	5	1	0.13	**0.15 J**	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
Trichlorofluoromethane	75-69-4	N	130	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vinyl acetate	108-05-4	N	41	---	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U
Vinyl chloride	75-01-4	C	0.016	2	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
Xylenes, Total	1330-20-7	N	20	10,000	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U
Volatile Organic Compounds-TIC																			
Methyl naphthalene isomer	---	---	---	---															
Tetrahydrofuran	109-99-9	---	---	---															
Unknown	---	---	---	---						**8.4 J**									
Unknown Alkane	---	---	---	---															
Semivolatile Organic Compounds (ug/L)																			
1,1'-Biphenyl	92-52-4	N	0.083	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
1,2,4,5-Tetrachlorobenzene	95-94-3	N	1.1	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
1,2,4-Trichlorobenzene	120-82-1	C	2.3	70	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
1,2-Dichlorobenzene	95-50-1	N	37	600	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
1,3,5-Trinitrobenzene	99-35-4	N	110	---	0.95	0.48	0.95 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.48	0.95 U
1,3-Dichlorobenzene[3]	541-73-1	---	0.43	75	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
1,4-Dichlorobenzene	106-46-7	C	0.43	75	0.95	0.095	**0.37 B**	0.95	0.095	**0.29 B**	0.96	0.096	**0.15 B**	0.96	0.096	**0.41 B**	0.95	0.095	**0.4 B**
1,4-Dioxane	123-91-1	C	0.67	---	1.9	0.3	**9.6**	1.9	0.29	**21**	1.9	0.3	**2.1**	1.9	0.3	**4**	1.9	0.3	**5.1**
1,4-Naphthoquinone	130-15-4	---	---	---	0.95	0.48	0.95 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.48	0.95 U
1-Naphthalenamine	134-32-7	---	---	---	4.8	1.2	4.8 U	4.7	1.2	4.7 U	4.8	1.2	4.8 U	4.8	1.2	4.8 U	4.8	1.2	4.8 U
2,2'-oxybis[1-chloropropane]	108-60-1	C	0.32	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
2,3,4,6-Tetrachlorophenol	58-90-2	N	110	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
2,4,5-Trichlorophenol	95-95-4	N	370	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U
2,4,6-Trichlorophenol	88-06-2	C	6.1	---	0.95	0.16	0.95 U	0.95	0.16	0.95 U	0.96	0.16	0.96 U	0.96	0.16	0.96 U	0.95	0.16	0.95 U
2,4-Dichlorophenol	120-83-2	N	11	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 UL	0.96	0.096	0.96 U	0.95	0.095	0.95 U
2,4-Dimethylphenol	105-67-9	N	73	---	1.9	0.66	1.9 U	1.9	0.65	1.9 U	1.9	0.66	1.9 UL	1.9	0.66	1.9 U	1.9	0.66	1.9 U
2,4-Dinitrophenol	51-28-5	N	7.3	---	9.5	1.1	9.5 U	9.5	1	9.5 U	9.6	1.1	9.6 U	9.6	1.1	9.6 U	9.5	1.1	9.5 U
2,4-Dinitrotoluene	121-14-2	C	0.22	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U
2,6-Dichlorophenol	87-65-0	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
2,6-Dinitrotoluene	606-20-2	N	3.7	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U
2-Acetylaminofluorene	53-96-3	C	0.018	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
2-Chloronaphthalene	91-58-7	N	290	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
2-Chlorophenol	95-57-8	N	18	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U
2-Methylnaphthalene	91-57-6	N	15	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
2-Methylphenol	95-48-7	N	180	---	1.9	0.71	1.9 U	1.9	0.7	1.9 U	1.9	0.71	1.9 U	1.9	0.71	1.9 U	1.9	0.71	1.9 U
2-Naphthalenamine	91-59-8	C	0.037	---	4.8	1.2	4.8 U	4.7	1.2	4.7 U	4.8	1.2	4.8 U	4.8	1.2	4.8 U	4.8	1.2	4.8 U
2-Nitroaniline	88-74-4	N	37	---	0.95	0.15	0.95 U	0.95	0.15	0.95 U	0.96	0.15	0.96 U	0.96	0.15	0.96 U	0.95	0.15	0.95 U
2-Nitrophenol	88-75-5	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
2-Picoline	109-06-8	---	---	---	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U
2-sec-Butyl-4,6-dinitrophenol	88-85-7	N	3.7	7	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U
3 & 4 Methylphenol	15831-10-4	---	---	---	1.9	0.63	1.9 U	1.9	0.63	1.9 U	1.9	0.63	1.9 UL	1.9	0.63	1.9 U	1.9	0.63	1.9 U
3,3'-Dichlorobenzidine	91-94-1	C	0.15	---	19	1.9	19 U	19	1.9	19 U	19	1.9	19 U	19	1.9	19 U	19	1.9	19 U
3,3'-Dimethylbenzidine	119-93-7	C	0.0061	---	19	4.8	19 U	19	4.7	19 U	19	4.8	19 U	19	4.8	19 U	19	4.8	19 U
3-Methylcholanthrene	56-49-5	C	0.00098	---	0.95	0.48	0.95 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.48	0.95 U
3-Nitroaniline	99-09-2	---	---	---	4.8	0.15	4.8 U	4.7	0.15	4.7 U	4.8	0.15	4.8 U	4.8	0.15	4.8 U	4.8	0.15	4.8 U
4,6-Dinitro-2-methylphenol	534-52-1	N	0.29	---	4.8	0.12	4.8 U	4.7	0.12	4.7 U	4.8	0.12	4.8 U	4.8	0.12	4.8 U	4.8	0.12	4.8 U
4-Aminobiphenyl	92-67-1	C	0.0032	---	4.8	0.3	4.8 U	4.7	0.29	4.7 U	4.8	0.3	4.8 U	4.8	0.3	4.8 U	4.8	0.3	4.8 U
4-Bromophenyl phenyl ether	101-55-3	---	---	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U
4-Chloro-3-methylphenol	59-50-7	N	370	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N			MW-5 4/29/2011			MW-5 DUP 4/29/2011			MW-5U 4/29/2011			MW-6 4/26/2011			MW-7L 4/28/2011		
	CAS Number		[2]Tapwater	MCL	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds - continued (ug/L)																			
Toluene	108-88-3	N	230	1,000	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	20	6.6	20 U	1	0.33	1 U
trans-1,2-Dichloroethene	156-60-5	N	11	100	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	20	4	20 U	1	0.2	1 U
trans-1,3-Dichloropropene[3]	10061-02-6	---	0.43	---	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	20	4.2	20 U	1	0.21	1 U
trans-1,4-Dichloro-2-butene	110-57-6	C	0.0012	---	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	40	10	40 U	2	0.5	2 U
Trichloroethylene	79-01-6	C	2	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	20	2.6	20 U	1	0.13	1 U
Trichlorofluoromethane	75-69-4	N	130	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U
Vinyl acetate	108-05-4	N	41	---	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	40	5.6	40 U	2	0.28	2 U
Vinyl chloride	75-01-4	C	0.016	2	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	20	3.6	20 U	1	0.18	1 U
Xylenes, Total	1330-20-7	N	20	10,000	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	40	4	40 U	2	0.2	2 U
Volatile Organic Compounds-TIC																			
Methyl naphthalene isomer	---	---	---	---															
Tetrahydrofuran	109-99-9	---	---	---							10	0.48	**2.6 J**						
Unknown	---	---	---	---															
Unknown Alkane	---	---	---	---															
Semivolatile Organic Compounds (ug/L)																			
1,1'-Biphenyl	92-52-4	N	0.083	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
1,2,4,5-Tetrachlorobenzene	95-94-3	N	1.1	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
1,2,4-Trichlorobenzene	120-82-1	C	2.3	70	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
1,2-Dichlorobenzene	95-50-1	N	37	600	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
1,3,5-Trinitrobenzene	99-35-4	N	110	---	0.95	0.47	0.95 U	0.95	0.48	0.95 U	0.97	0.48	0.97 U	1.1	0.55	1.1 U	0.95	0.48	0.95 U
1,3-Dichlorobenzene[3]	541-73-1	---	0.43	75	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
1,4-Dichlorobenzene	106-46-7	C	0.43	75	0.95	0.095	**0.31 B**	0.95	0.095	**0.39 B**	0.97	0.097	**0.67 B**	1.1	0.11	**0.13 B**	0.95	0.1	**0.17 B**
1,4-Dioxane	123-91-1	C	0.67	---	1.9	0.29	**1.3 J**	1.9	0.3	1.9 U	1.9	0.3	**2.7**	2.2	0.34	**2.7**	1.9	0.3	1.9 U
1,4-Naphthoquinone	130-15-4	---	---	---	0.95	0.47	0.95 U	0.95	0.48	0.95 U	0.97	0.48	0.97 U	1.1	0.55	1.1 U	0.95	0.48	0.95 U
1-Naphthalenamine	134-32-7	---	---	---	4.7	1.2	4.7 U	4.8	1.2	4.8 U	4.8	1.3	4.8 U	5.5	1.4	5.5 U	4.8	1.2	4.8 U
2,2'-oxybis[1-chloropropane]	108-60-1	C	0.32	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
2,3,4,6-Tetrachlorophenol	58-90-2	N	110	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
2,4,5-Trichlorophenol	95-95-4	N	370	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.97	0.12	0.97 U	1.1	0.13	1.1 U	0.95	0.11	0.95 U
2,4,6-Trichlorophenol	88-06-2	C	6.1	---	0.95	0.16	0.95 U	0.95	0.16	0.95 U	0.97	0.16	0.97 U	1.1	0.19	1.1 U	0.95	0.16	0.95 U
2,4-Dichlorophenol	120-83-2	N	11	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 UL	0.95	0.1	0.95 UL
2,4-Dimethylphenol	105-67-9	N	73	---	1.9	0.65	1.9 U	1.9	0.66	1.9 U	1.9	0.67	1.9 U	2.2	0.76	2.2 UL	1.9	0.66	1.9 UL
2,4-Dinitrophenol	51-28-5	N	7.3	---	9.5	1	9.5 U	9.5	1	9.5 U	9.7	1.1	9.7 U	11	1.2	11 U	9.5	1	9.5 U
2,4-Dinitrotoluene	121-14-2	C	0.22	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.97	0.12	0.97 U	1.1	0.13	1.1 U	0.95	0.11	0.95 U
2,6-Dichlorophenol	87-65-0	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
2,6-Dinitrotoluene	606-20-2	N	3.7	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.97	0.13	0.97 U	1.1	0.14	1.1 U	0.95	0.12	0.95 U
2-Acetylaminofluorene	53-96-3	C	0.018	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
2-Chloronaphthalene	91-58-7	N	290	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
2-Chlorophenol	95-57-8	N	18	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.97	0.12	0.97 U	1.1	0.13	1.1 U	0.95	0.11	0.95 U
2-Methylnaphthalene	91-57-6	N	15	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
2-Methylphenol	95-48-7	N	180	---	1.9	0.7	1.9 U	1.9	0.71	1.9 U	1.9	0.72	1.9 U	2.2	0.81	2.2 U	1.9	0.71	1.9 U
2-Naphthalenamine	91-59-8	C	0.037	---	4.7	1.2	4.7 U	4.8	1.2	4.8 U	4.8	1.3	4.8 U	5.5	1.4	5.5 U	4.8	1.2	4.8 U
2-Nitroaniline	88-74-4	N	37	---	0.95	0.15	0.95 U	0.95	0.15	0.95 U	0.97	0.15	0.97 U	1.1	0.18	1.1 U	0.95	0.15	0.95 U
2-Nitrophenol	88-75-5	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
2-Picoline	109-06-8	---	---	---	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.15	1.9 U	2.2	0.16	2.2 U	1.9	0.14	1.9 U
2-sec-Butyl-4,6-dinitrophenol	88-85-7	N	3.7	7	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.15	1.9 U	2.2	0.16	2.2 U	1.9	0.14	1.9 U
3 & 4 Methylphenol	15831-10-4	---	---	---	1.9	0.63	1.9 U	1.9	0.63	1.9 U	1.9	0.64	1.9 U	2.2	0.73	2.2 UL	1.9	0.63	1.9 UL
3,3'-Dichlorobenzidine	91-94-1	C	0.15	---	19	1.9	19 U	19	1.9	19 U	19	1.9	19 U	22	2.2	22 U	19	1.9	19 U
3,3'-Dimethylbenzidine	119-93-7	C	0.0061	---	19	4.7	19 U	19	4.8	19 U	19	4.8	19 U	22	5.5	22 U	19	4.8	19 U
3-Methylcholanthrene	56-49-5	C	0.00098	---	0.95	0.47	0.95 U	0.95	0.48	0.95 U	0.97	0.48	0.97 U	1.1	0.55	1.1 U	0.95	0.48	0.95 U
3-Nitroaniline	99-09-2	---	---	---	4.7	0.15	4.7 U	4.8	0.15	4.8 U	4.8	0.15	4.8 U	5.5	0.18	5.5 U	4.8	0.15	4.8 U
4,6-Dinitro-2-methylphenol	534-52-1	N	0.29	---	4.7	0.12	4.7 U	4.8	0.12	4.8 U	4.8	0.13	4.8 U	5.5	0.14	5.5 U	4.8	0.12	4.8 U
4-Aminobiphenyl	92-67-1	C	0.0032	---	4.7	0.29	4.7 U	4.8	0.3	4.8 U	4.8	0.3	4.8 U	5.5	0.34	5.5 U	4.8	0.3	4.8 U
4-Bromophenyl phenyl ether	101-55-3	---	---	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.97	0.12	0.97 U	1.1	0.13	1.1 U	0.95	0.11	0.95 U
4-Chloro-3-methylphenol	59-50-7	N	370	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.97	0.12	0.97 U	1.1	0.13	1.1 U	0.95	0.11	0.95 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-7U 4/28/2011			MW-8D 4/26/2011			MW-8U 4/26/2011			MW-9 4/29/2011			MW-10 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds - continued (ug/L)																			
Toluene	108-88-3	N	230	1,000	1	0.33	1 U	1	0.33	1 U	20	6.6	20 U	1	0.33	1 U	1	0.33	1 U
trans-1,2-Dichloroethene	156-60-5	N	11	100	1	0.2	1 U	1	0.2	1 U	20	4	20 U	1	0.2	1 U	1	0.2	**1.1**
trans-1,3-Dichloropropene[3]	10061-02-6	---	0.43	---	1	0.21	1 U	1	0.21	1 U	20	4.2	20 U	1	0.21	1 U	1	0.21	1 U
trans-1,4-Dichloro-2-butene	110-57-6	C	0.0012	---	2	0.5	2 U	2	0.5	2 U	40	10	40 U	2	0.5	2 U	2	0.5	2 U
Trichloroethylene	79-01-6	C	2	5	1	0.13	**0.54 J**	1	0.13	1 U	20	2.6	20 U	1	0.13	1 U	1	0.13	**2.1**
Trichlorofluoromethane	75-69-4	N	130	---	1	0.25	1 U	1	0.25	1 U	20	5	20 U	1	0.25	1 U	1	0.25	1 U
Vinyl acetate	108-05-4	N	41	---	2	0.28	2 U	2	0.28	2 U	40	5.6	40 U	2	0.28	2 U	2	0.28	2 U
Vinyl chloride	75-01-4	C	0.016	2	1	0.18	1 U	1	0.18	1 U	20	3.6	20 U	1	0.18	1 U	1	0.18	1 U
Xylenes, Total	1330-20-7	N	20	10,000	2	0.2	2 U	2	0.2	2 U	40	4	40 U	2	0.2	2 U	2	0.2	2 U
Volatile Organic Compounds-TIC																			
Methyl naphthalene isomer	---	---	---	---															
Tetrahydrofuran	109-99-9	---	---	---															
Unknown	---	---	---	---															
Unknown Alkane	---	---	---	---															
Semivolatile Organic Compounds (ug/L)																			
1,1'-Biphenyl	92-52-4	N	0.083	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
1,2,4,5-Tetrachlorobenzene	95-94-3	N	1.1	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
1,2,4-Trichlorobenzene	120-82-1	C	2.3	70	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
1,2-Dichlorobenzene	95-50-1	N	37	600	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
1,3,5-Trinitrobenzene	99-35-4	N	110	---	0.95	0.48	0.95 U	0.95	0.48	0.95 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U
1,3-Dichlorobenzene[3]	541-73-1	---	0.43	75	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
1,4-Dichlorobenzene	106-46-7	C	0.43	75	0.95	0.095	**0.12 B**	0.95	0.095	**0.15 B**	0.96	0.096	**0.12 B**	0.95	0.095	**0.3 B**	0.96	0.096	**0.14 B**
1,4-Dioxane	123-91-1	C	0.67	---	1.9	0.29	**1.2 J**	1.9	0.3	1.9 U	1.9	0.3	**8.6**	1.9	0.29	**9.8**	1.9	0.3	**24**
1,4-Naphthoquinone	130-15-4	---	---	---	0.95	0.48	0.95 U	0.95	0.48	0.95 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U
1-Naphthalenamine	134-32-7	---	---	---	4.8	1.2	4.8 U	4.8	1.2	4.8 U	4.8	1.2	4.8 U	4.7	1.2	4.7 U	4.8	1.3	4.8 U
2,2'-oxybis[1-chloropropane]	108-60-1	C	0.32	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
2,3,4,6-Tetrachlorophenol	58-90-2	N	110	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
2,4,5-Trichlorophenol	95-95-4	N	370	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U
2,4,6-Trichlorophenol	88-06-2	C	6.1	---	0.95	0.16	0.95 U	0.95	0.16	0.95 U	0.96	0.16	0.96 U	0.95	0.16	0.95 U	0.96	0.16	0.96 U
2,4-Dichlorophenol	120-83-2	N	11	---	0.95	0.095	0.95 UL	0.95	0.095	0.95 UL	0.96	0.096	0.96 UL	0.95	0.095	0.95 U	0.96	0.096	0.96 UL
2,4-Dimethylphenol	105-67-9	N	73	---	1.9	0.66	1.9 UL	1.9	0.66	1.9 UL	1.9	0.66	1.9 UL	1.9	0.65	1.9 U	1.9	0.66	1.9 UL
2,4-Dinitrophenol	51-28-5	N	7.3	---	9.5	1	9.5 U	9.5	1	9.5 U	9.6	1.1	9.6 U	9.5	1	9.5 U	9.6	1.1	9.6 U
2,4-Dinitrotoluene	121-14-2	C	0.22	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U
2,6-Dichlorophenol	87-65-0	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
2,6-Dinitrotoluene	606-20-2	N	3.7	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U	0.96	0.13	0.96 U
2-Acetylaminofluorene	53-96-3	C	0.018	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
2-Chloronaphthalene	91-58-7	N	290	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
2-Chlorophenol	95-57-8	N	18	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U
2-Methylnaphthalene	91-57-6	N	15	---	0.19	0.095	**0.25**	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
2-Methylphenol	95-48-7	N	180	---	1.9	0.7	1.9 U	1.9	0.71	1.9 U	1.9	0.71	1.9 U	1.9	0.7	1.9 U	1.9	0.71	1.9 U
2-Naphthalenamine	91-59-8	C	0.037	---	4.8	1.2	4.8 U	4.8	1.2	4.8 U	4.8	1.2	4.8 U	4.7	1.2	4.7 U	4.8	1.3	4.8 U
2-Nitroaniline	88-74-4	N	37	---	0.95	0.15	0.95 U	0.95	0.15	0.95 U	0.96	0.15	0.96 U	0.95	0.15	0.95 U	0.96	0.15	0.96 U
2-Nitrophenol	88-75-5	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
2-Picoline	109-06-8	---	---	---	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U
2-sec-Butyl-4,6-dinitrophenol	88-85-7	N	3.7	7	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U
3 & 4 Methylphenol	15831-10-4	---	---	---	1.9	0.63	1.9 UL	1.9	0.63	1.9 UL	1.9	0.63	1.9 UL	1.9	0.63	1.9 U	1.9	0.64	1.9 UL
3,3'-Dichlorobenzidine	91-94-1	C	0.15	---	19	1.9	19 U	19	1.9	19 U	19	1.9	19 U	19	1.9	19 U	19	1.9	19 U
3,3'-Dimethylbenzidine	119-93-7	C	0.0061	---	19	4.8	19 U	19	4.8	19 U	19	4.8	19 U	19	4.7	19 U	19	4.8	19 U
3-Methylcholanthrene	56-49-5	C	0.00098	---	0.95	0.48	0.95 U	0.95	0.48	0.95 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U
3-Nitroaniline	99-09-2	---	---	---	4.8	0.15	4.8 U	4.8	0.15	4.8 U	4.8	0.15	4.8 U	4.7	0.15	4.7 U	4.8	0.15	4.8 U
4,6-Dinitro-2-methylphenol	534-52-1	N	0.29	---	4.8	0.12	4.8 U	4.8	0.12	4.8 U	4.8	0.12	4.8 U	4.7	0.12	4.7 U	4.8	0.13	4.8 U
4-Aminobiphenyl	92-67-1	C	0.0032	---	4.8	0.29	4.8 U	4.8	0.3	4.8 U	4.8	0.3	4.8 U	4.7	0.29	4.7 U	4.8	0.3	4.8 U
4-Bromophenyl phenyl ether	101-55-3	---	---	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U
4-Chloro-3-methylphenol	59-50-7	N	370	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N			NAT-1 4/28/2011			NAT-2 4/28/2011			NAT-3 4/28/2011			NAT-3 DUP 4/28/2011			NAT-4 5/2/2011			NAT-4 (Filtered) 5/2/2011		
	CAS Number		[2]Tapwater	MCL	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds - continued (ug/L)																						
Toluene	108-88-3	N	230	1,000	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U			
trans-1,2-Dichloroethene	156-60-5	N	11	100	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U			
trans-1,3-Dichloropropene[3]	10061-02-6	---	0.43	---	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U			
trans-1,4-Dichloro-2-butene	110-57-6	C	0.0012	---	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U			
Trichloroethylene	79-01-6	C	2	5	1	0.13	**28**	1	0.13	**3.2**	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U			
Trichlorofluoromethane	75-69-4	N	130	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U			
Vinyl acetate	108-05-4	N	41	---	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U			
Vinyl chloride	75-01-4	C	0.016	2	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U			
Xylenes, Total	1330-20-7	N	20	10,000	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U			
Volatile Organic Compounds-TIC																						
Methyl naphthalene isomer	---	---	---	---																		
Tetrahydrofuran	109-99-9	---	---	---																		
Unknown	---	---	---	---			**5 J**			**14 J**			**5.6 J**									
Unknown Alkane	---	---	---	---																		
Semivolatile Organic Compounds (ug/L)																						
1,1'-Biphenyl	92-52-4	N	0.083	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
1,2,4,5-Tetrachlorobenzene	95-94-3	N	1.1	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
1,2,4-Trichlorobenzene	120-82-1	C	2.3	70				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
1,2-Dichlorobenzene	95-50-1	N	37	600				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
1,3,5-Trinitrobenzene	99-35-4	N	110	---				0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U						
1,3-Dichlorobenzene[3]	541-73-1	---	0.43	75				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
1,4-Dichlorobenzene	106-46-7	C	0.43	75				0.96	0.096	**0.13 B**	0.96	0.096	**0.15 B**	0.95	0.095	**0.1 B**						
1,4-Dioxane	123-91-1	C	0.67	---				1.9	0.3	**1.5 J**	1.9	0.3	**6.8**	1.9	0.29	**7.6**						
1,4-Naphthoquinone	130-15-4	---	---	---				0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U						
1-Naphthalenamine	134-32-7	---	---	---				4.8	1.3	4.8 U	4.8	1.2	4.8 U	4.7	1.2	4.7 U						
2,2'-oxybis[1-chloropropane]	108-60-1	C	0.32	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
2,3,4,6-Tetrachlorophenol	58-90-2	N	110	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
2,4,5-Trichlorophenol	95-95-4	N	370	---				0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.11	0.95 U						
2,4,6-Trichlorophenol	88-06-2	C	6.1	---				0.96	0.16	0.96 U	0.96	0.16	0.96 U	0.95	0.16	0.95 U						
2,4-Dichlorophenol	120-83-2	N	11	---				0.96	0.096	0.96 UL	0.96	0.096	0.96 UL	0.95	0.095	0.95 UL						
2,4-Dimethylphenol	105-67-9	N	73	---				1.9	0.67	1.9 UL	1.9	0.66	1.9 UL	1.9	0.65	1.9 UL						
2,4-Dinitrophenol	51-28-5	N	7.3	---				9.6	1.1	9.6 U	9.6	1.1	9.6 U	9.5	1	9.5 U						
2,4-Dinitrotoluene	121-14-2	C	0.22	---				0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.11	0.95 U						
2,6-Dichlorophenol	87-65-0	---	---	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
2,6-Dinitrotoluene	606-20-2	N	3.7	---				0.96	0.13	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U						
2-Acetylaminofluorene	53-96-3	C	0.018	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
2-Chloronaphthalene	91-58-7	N	290	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
2-Chlorophenol	95-57-8	N	18	---				0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.11	0.95 U						
2-Methylnaphthalene	91-57-6	N	15	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
2-Methylphenol	95-48-7	N	180	---				1.9	0.71	1.9 U	1.9	0.71	1.9 U	1.9	0.7	1.9 U						
2-Naphthalenamine	91-59-8	C	0.037	---				4.8	1.3	4.8 U	4.8	1.2	4.8 U	4.7	1.2	4.7 U						
2-Nitroaniline	88-74-4	N	37	---				0.96	0.15	0.96 U	0.96	0.15	0.96 U	0.95	0.15	0.95 U						
2-Nitrophenol	88-75-5	---	---	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
2-Picoline	109-06-8	---	---	---				1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U						
2-sec-Butyl-4,6-dinitrophenol	88-85-7	N	3.7	7				1.9	0.14	1.9 U	1.9	0.14	1.9 U	1.9	0.14	1.9 U						
3 & 4 Methylphenol	15831-10-4	---	---	---				1.9	0.64	1.9 UL	1.9	0.63	1.9 UL	1.9	0.62	1.9 UL						
3,3'-Dichlorobenzidine	91-94-1	C	0.15	---				19	1.9	19 U	19	1.9	19 U	19	1.9	19 U						
3,3'-Dimethylbenzidine	119-93-7	C	0.0061	---				19	4.8	19 U	19	4.8	19 U	19	4.7	19 U						
3-Methylcholanthrene	56-49-5	C	0.00098	---				0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U						
3-Nitroaniline	99-09-2	---	---	---				4.8	0.15	4.8 U	4.8	0.15	4.8 U	4.7	0.15	4.7 U						
4,6-Dinitro-2-methylphenol	534-52-1	N	0.29	---				4.8	0.13	4.8 U	4.8	0.12	4.8 U	4.7	0.12	4.7 U						
4-Aminobiphenyl	92-67-1	C	0.0032	---				4.8	0.3	4.8 U	4.8	0.3	4.8 U	4.7	0.29	4.7 U						
4-Bromophenyl phenyl ether	101-55-3	---	---	---				0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.11	0.95 U						
4-Chloro-3-methylphenol	59-50-7	N	370	---				0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.11	0.95 U						

Table 7
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	CAS Number	[1]C or N	[2]Tapwater	MCL	RAB-MW2 4/28/2011			RAB-MW3 4/28/2011			RAB-MW4 4/28/2011			SDB-MW-1 4/26/2011			SDB-MW-2 4/26/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds - continued (ug/L)																			
Toluene	108-88-3	N	230	1,000	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U	1	0.33	1 U
trans-1,2-Dichloroethene	156-60-5	N	11	100	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U	1	0.2	1 U
trans-1,3-Dichloropropene[3]	10061-02-6	---	0.43	---	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U	1	0.21	1 U
trans-1,4-Dichloro-2-butene	110-57-6	C	0.0012	---	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U	2	0.5	2 U
Trichloroethylene	79-01-6	C	2	5	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U	1	0.13	1 U
Trichlorofluoromethane	75-69-4	N	130	---	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vinyl acetate	108-05-4	N	41	---	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U	2	0.28	2 U
Vinyl chloride	75-01-4	C	0.016	2	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
Xylenes, Total	1330-20-7	N	20	10,000	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U	2	0.2	2 U
Volatile Organic Compounds-TIC																			
Methyl naphthalene isomer	---	---	---	---															
Tetrahydrofuran	109-99-9	---	---	---															
Unknown	---	---	---	---						**6.1 J**									
Unknown Alkane	---	---	---	---															
Semivolatile Organic Compounds (ug/L)																			
1,1'-Biphenyl	92-52-4	N	0.083	---															
1,2,4,5-Tetrachlorobenzene	95-94-3	N	1.1	---															
1,2,4-Trichlorobenzene	120-82-1	C	2.3	70															
1,2-Dichlorobenzene	95-50-1	N	37	600															
1,3,5-Trinitrobenzene	99-35-4	N	110	---															
1,3-Dichlorobenzene[3]	541-73-1	---	0.43	75															
1,4-Dichlorobenzene	106-46-7	C	0.43	75															
1,4-Dioxane	123-91-1	C	0.67	---															
1,4-Naphthoquinone	130-15-4	---	---	---															
1-Naphthalenamine	134-32-7	---	---	---															
2,2'-oxybis[1-chloropropane]	108-60-1	C	0.32	---															
2,3,4,6-Tetrachlorophenol	58-90-2	N	110	---															
2,4,5-Trichlorophenol	95-95-4	N	370	---															
2,4,6-Trichlorophenol	88-06-2	C	6.1	---															
2,4-Dichlorophenol	120-83-2	N	11	---															
2,4-Dimethylphenol	105-67-9	N	73	---															
2,4-Dinitrophenol	51-28-5	N	7.3	---															
2,4-Dinitrotoluene	121-14-2	C	0.22	---															
2,6-Dichlorophenol	87-65-0	---	---	---															
2,6-Dinitrotoluene	606-20-2	N	3.7	---															
2-Acetylaminofluorene	53-96-3	C	0.018	---															
2-Chloronaphthalene	91-58-7	N	290	---															
2-Chlorophenol	95-57-8	N	18	---															
2-Methylnaphthalene	91-57-6	N	15	---															
2-Methylphenol	95-48-7	N	180	---															
2-Naphthalenamine	91-59-8	C	0.037	---															
2-Nitroaniline	88-74-4	N	37	---															
2-Nitrophenol	88-75-5	---	---	---															
2-Picoline	109-06-8	---	---	---															
2-sec-Butyl-4,6-dinitrophenol	88-85-7	N	3.7	7															
3 & 4 Methylphenol	15831-10-4	---	---	---															
3,3'-Dichlorobenzidine	91-94-1	C	0.15	---															
3,3'-Dimethylbenzidine	119-93-7	C	0.0061	---															
3-Methylcholanthrene	56-49-5	C	0.00098	---															
3-Nitroaniline	99-09-2	---	---	---															
4,6-Dinitro-2-methylphenol	534-52-1	N	0.29	---															
4-Aminobiphenyl	92-67-1	C	0.0032	---															
4-Bromophenyl phenyl ether	101-55-3	---	---	---															
4-Chloro-3-methylphenol	59-50-7	N	370	---															

Table 7
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		[1]C or N	[2]Tapwater	MCL	SDB-MW-3 4/26/2011			WWL-1 4/27/2011			WWL-2 4/27/2011			WWL-3L 4/27/2011			WWL-3U 4/27/2011			VFSP-MW-1 4/29/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Volatile Organic Compounds - continued (ug/L)																						
Toluene	108-88-3	N	230	1,000	1	0.33	1 U	5	1.6	5 U	1	0.33	1 U	100	33	100 U	10	3.3	10 U	1	0.33	1 U
trans-1,2-Dichloroethene	156-60-5	N	11	100	1	0.2	1 U	5	1	5 U	1	0.2	1 U	100	20	100 U	10	2	10 U	1	0.2	1 U
trans-1,3-Dichloropropene[3]	10061-02-6	---	0.43	---	1	0.21	1 U	5	1	5 U	1	0.21	1 U	100	21	100 U	10	2.1	10 U	1	0.21	1 U
trans-1,4-Dichloro-2-butene	110-57-6	C	0.0012	---	2	0.5	2 U	10	2.5	10 U	2	0.5	2 U	200	50	200 U	20	5	20 U	2	0.5	2 U
Trichloroethylene	79-01-6	C	2	5	1	0.13	1 U	5	0.65	5 U	1	0.13	1 U	100	13	100 U	10	1.3	10 U	1	0.13	1 U
Trichlorofluoromethane	75-69-4	N	130	---	1	0.25	1 U	5	1.2	5 U	1	0.25	1 U	100	25	100 U	10	2.5	10 U	1	0.25	1 U
Vinyl acetate	108-05-4	N	41	---	2	0.28	2 U	10	1.4	10 U	2	0.28	2 U	200	28	200 U	20	2.8	20 U	2	0.28	2 U
Vinyl chloride	75-01-4	C	0.016	2	1	0.18	1 U	5	0.9	5 U	1	0.18	1 U	100	18	100 U	10	1.8	10 U	1	0.18	1 U
Xylenes, Total	1330-20-7	N	20	10,000	2	0.2	2 U	10	1	10 U	2	0.2	2 U	200	20	200 U	20	2	20 U	2	0.2	2 U
Volatile Organic Compounds-TIC																						
Methyl naphthalene isomer	---	---	---	---																		
Tetrahydrofuran	109-99-9	---	---	---																		
Unknown	---	---	---	---						**35 J**												
Unknown Alkane	---	---	---	---						**37 J**												
Semivolatile Organic Compounds (ug/L)																						
1,1'-Biphenyl	92-52-4	N	0.083	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
1,2,4,5-Tetrachlorobenzene	95-94-3	N	1.1	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
1,2,4-Trichlorobenzene	120-82-1	C	2.3	70										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
1,2-Dichlorobenzene	95-50-1	N	37	600										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
1,3,5-Trinitrobenzene	99-35-4	N	110	---										0.96	0.48	0.96 U	0.96	0.48	0.96 U			
1,3-Dichlorobenzene[3]	541-73-1	---	0.43	75										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
1,4-Dichlorobenzene	106-46-7	C	0.43	75										0.96	0.096	**0.12 B**	0.96	0.096	**0.11 B**			
1,4-Dioxane	123-91-1	C	0.67	---										1.9	0.3	**18**	1.9	0.3	**3.2**			
1,4-Naphthoquinone	130-15-4	---	---	---										0.96	0.48	0.96 U	0.96	0.48	0.96 U			
1-Naphthalenamine	134-32-7	---	---	---										4.8	1.2	4.8 U	4.8	1.3	4.8 U			
2,2'-oxybis[1-chloropropane]	108-60-1	C	0.32	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
2,3,4,6-Tetrachlorophenol	58-90-2	N	110	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
2,4,5-Trichlorophenol	95-95-4	N	370	---										0.96	0.11	0.96 U	0.96	0.12	0.96 U			
2,4,6-Trichlorophenol	88-06-2	C	6.1	---										0.96	0.16	0.96 U	0.96	0.16	0.96 U			
2,4-Dichlorophenol	120-83-2	N	11	---										0.96	0.096	0.96 UL	0.96	0.096	0.96 UL			
2,4-Dimethylphenol	105-67-9	N	73	---										1.9	0.66	1.9 UL	1.9	0.66	1.9 UL			
2,4-Dinitrophenol	51-28-5	N	7.3	---										9.6	1.1	9.6 U	9.6	1.1	9.6 U			
2,4-Dinitrotoluene	121-14-2	C	0.22	---										0.96	0.11	0.96 U	0.96	0.12	0.96 U			
2,6-Dichlorophenol	87-65-0	---	---	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
2,6-Dinitrotoluene	606-20-2	N	3.7	---										0.96	0.12	0.96 U	0.96	0.13	0.96 U			
2-Acetylaminofluorene	53-96-3	C	0.018	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
2-Chloronaphthalene	91-58-7	N	290	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
2-Chlorophenol	95-57-8	N	18	---										0.96	0.11	0.96 U	0.96	0.12	0.96 U			
2-Methylnaphthalene	91-57-6	N	15	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
2-Methylphenol	95-48-7	N	180	---										1.9	0.71	1.9 U	1.9	0.71	1.9 U			
2-Naphthalenamine	91-59-8	C	0.037	---										4.8	1.2	4.8 U	4.8	1.3	4.8 U			
2-Nitroaniline	88-74-4	N	37	---										0.96	0.15	0.96 U	0.96	0.15	0.96 U			
2-Nitrophenol	88-75-5	---	---	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
2-Picoline	109-06-8	---	---	---										1.9	0.14	1.9 U	1.9	0.14	1.9 U			
2-sec-Butyl-4,6-dinitrophenol	88-85-7	N	3.7	7										1.9	0.14	1.9 U	1.9	0.14	1.9 U			
3 & 4 Methylphenol	15831-10-4	---	---	---										1.9	0.63	1.9 UL	1.9	0.64	1.9 UL			
3,3'-Dichlorobenzidine	91-94-1	C	0.15	---										19	1.9	19 U	19	1.9	19 U			
3,3'-Dimethylbenzidine	119-93-7	C	0.0061	---										19	4.8	19 U	19	4.8	19 U			
3-Methylcholanthrene	56-49-5	C	0.00098	---										0.96	0.48	0.96 U	0.96	0.48	0.96 U			
3-Nitroaniline	99-09-2	---	---	---										4.8	0.15	4.8 U	4.8	0.15	4.8 U			
4,6-Dinitro-2-methylphenol	534-52-1	N	0.29	---										4.8	0.12	4.8 U	4.8	0.13	4.8 U			
4-Aminobiphenyl	92-67-1	C	0.0032	---										4.8	0.3	4.8 U	4.8	0.3	4.8 U			
4-Bromophenyl phenyl ether	101-55-3	---	---	---										0.96	0.11	0.96 U	0.96	0.12	0.96 U			
4-Chloro-3-methylphenol	59-50-7	N	370	---										0.96	0.11	0.96 U	0.96	0.12	0.96 U			

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Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	LF-1 4/27/2011			LF-2 4/27/2011			LF-3 4/27/2011			LF-4 4/27/2011			LF-5 4/27/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
4-Chloroaniline	106-47-8	C	0.34	---	1.9	0.34	1.9 U				1.9	0.34	1.9 U	1.9	0.34	1.9 U	2	0.36	2 U
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
4-Nitroaniline	100-01-6	C	3.4	---	4.8	0.48	4.8 U				4.7	0.47	4.7 U	4.8	0.48	4.8 U	5	0.5	5 U
4-Nitrophenol	100-02-7	---	---	---	4.8	0.48	4.8 U				4.7	0.47	4.7 U	4.8	0.48	4.8 U	5	0.5	5 U
4-Nitroquinoline-1-oxide	56-57-5	---	---	---	1.9	1	**1.9 R**				1.9	1	**1.9 R**	1.9	1	**1.9 R**	2	1.1	**2 R**
5-Nitro-o-toluidine	99-55-8	C	7.5	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
7,12-Dimethylbenz(a)anthracene	57-97-6	C	0.000086	---	0.95	0.19	0.95 U				0.95	0.19	0.95 U	0.95	0.19	0.95 U	1	0.2	1 U
Acenaphthene	83-32-9	N	220	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Acenaphthylene	208-96-8	---	---	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Acetophenone	98-86-2	N	370	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	**0.25 B**
alpha,alpha-Dimethyl phenethylamine	122-09-8	---	---	---	9.5	3.2	9.5 U				9.5	3.2	9.5 U	9.5	3.2	9.5 U	10	3.4	10 U
Aniline	62-53-3	C	12	---	1.9	0.92	1.9 U				1.9	0.92	1.9 U	1.9	0.92	1.9 U	2	0.97	2 U
Anthracene	120-12-7	N	1,100	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Aramite, Total	140-57-8	C	2.7	---	1.4	0.1	1.4 U				1.4	0.1	1.4 U	1.4	0.1	1.4 U	1.5	0.11	1.5 U
Benzo[a]anthracene	56-55-3	C	0.029	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Benzo[a]pyrene	50-32-8	C	0.0029	0.2	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Benzo[b]fluoranthene	205-99-2	C	0.029	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Benzo[g,h,i]perylene	191-24-2	---	---	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Benzo[k]fluoranthene	207-08-9	C	0.29	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Benzyl alcohol	100-51-6	N	370	---	0.95	0.13	0.95 U				0.95	0.13	0.95 U	0.95	0.13	0.95 U	1	0.14	1 U
Bis(2-chloroethoxy)methane	111-91-1	N	11	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6	1.9	0.61	1.9 U				1.9	0.61	1.9 U	1.9	0.61	1.9 U	2	0.64	**1.2 J**
Butyl benzyl phthalate	85-68-7	C	35	---	0.95	0.11	0.95 U				0.95	0.11	0.95 U	0.95	0.11	0.95 U	1	0.12	**0.17 J**
Chrysene	218-01-9	C	2.9	---	0.19	0.043	0.19 U				0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.2	0.045	0.2 U
Diallate	2303-16-4	C	1.1	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Dibenz(a,h)anthracene	53-70-3	C	0.0029	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Dibenzofuran	132-64-9	N	3.7	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Diethyl phthalate	84-66-2	N	2,900	---	0.95	0.1	0.95 U				0.95	0.1	0.95 U	0.95	0.1	0.95 U	1	0.11	1 U
Dimethoate	60-51-5	N	0.73	---	1.9	0.11	1.9 U				1.9	0.11	1.9 U	1.9	0.11	1.9 U	2	0.12	2 U
Dimethyl phthalate	131-11-3	---	---	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Di-n-butyl phthalate	84-74-2	N	370	---	0.95	0.37	0.95 U				0.95	0.37	0.95 U	0.95	0.37	0.95 U	1	0.39	1 U
Di-n-octyl phthalate	117-84-0	---	---	---	0.95	0.16	0.95 U				0.95	0.16	0.95 U	0.95	0.16	0.95 U	1	0.17	1 U
Disulfoton	298-04-4	N	0.15	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Ethyl methanesulfonate	62-50-0	---	---	---	1.9	0.095	1.9 U				1.9	0.095	1.9 U	1.9	0.095	1.9 U	2	0.1	2 U
Ethyl Parathion	56-38-2	N	22	---	1.9	0.095	1.9 U				1.9	0.095	1.9 U	1.9	0.095	1.9 U	2	0.1	2 U
Famphur	52-85-7	---	---	---	0.95	0.15	0.95 U				0.95	0.15	0.95 U	0.95	0.15	0.95 U	1	0.16	1 U
Fluoranthene	206-44-0	N	150	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Fluorene	86-73-7	N	150	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Hexachlorobenzene	118-74-1	C	0.042	1	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Hexachlorobutadiene	87-68-3	C	0.86	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Hexachlorocyclopentadiene	77-47-4	N	22	50	1.9	0.48	1.9 U				1.9	0.47	1.9 U	1.9	0.48	1.9 U	2	0.5	2 U
Hexachloroethane	67-72-1	C	4.8	---	0.95	0.48	0.95 U				0.95	0.47	0.95 U	0.95	0.48	0.95 U	1	0.5	1 U
Hexachlorophene	70-30-4	N	1.1	---	480	24	480 UL				470	24	470 UL	480	24	480 UL	500	25	500 UL
Hexachloropropene	1888-71-7	---	---	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Isophorone	78-59-1	C	71	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Isosafrole	120-58-1	---	---	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
m-Dinitrobenzene	99-65-0	N	0.37	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Methapyrilene	91-80-5	---	---	---	190	1.2	190 U				190	1.2	190 U	190	1.2	190 U	200	1.3	200 U
Methyl methanesulfonate	66-27-3	C	0.68	---	1.9	0.095	1.9 U				1.9	0.095	1.9 U	1.9	0.095	1.9 U	2	0.1	2 U
Methyl parathion	298-00-0	N	0.91	---	0.95	0.12	0.95 U				0.95	0.12	0.95 U	0.95	0.12	0.95 U	1	0.13	1 U
Naphthalene	91-20-3	C	0.14	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Nitrobenzene	98-95-3	C	0.12	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
N-Nitrosodiethylamine	55-18-5	C	0.00014	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-1 5/2/2011			MW-2 4/29/2011			MW-3 4/26/2011			MW-4 4/29/2011			MW-4U 4/29/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
4-Chloroaniline	106-47-8	C	0.34	---	1.9	0.34	1.9 U	1.9	0.34	1.9 U	1.9	0.35	1.9 U	1.9	0.34	1.9 U	1.9	0.34	1.9 U
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
4-Nitroaniline	100-01-6	C	3.4	---	4.8	0.48	4.8 U	4.7	0.47	4.7 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U
4-Nitrophenol	100-02-7	---	---	---	4.8	0.48	4.8 U	4.7	0.47	4.7 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U
4-Nitroquinoline-1-oxide	56-57-5	---	---	---	1.9	1.1	**1.9 R**	1.9	1	**1.9 R**	1.9	1.1	**1.9 R**	1.9	1.1	**1.9 R**	1.9	1.1	**1.9 R**
5-Nitro-o-toluidine	99-55-8	C	7.5	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
7,12-Dimethylbenz(a)anthracene	57-97-6	C	0.000086	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U
Acenaphthene	83-32-9	N	220	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Acenaphthylene	208-96-8	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Acetophenone	98-86-2	N	370	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	**0.13 B**	0.95	0.095	0.95 U
alpha,alpha-Dimethyl phenethylamine	122-09-8	---	---	---	9.5	3.2	9.5 U	9.5	3.2	9.5 U	9.6	3.3	9.6 U	9.6	3.2	9.6 U	9.5	3.2	9.5 U
Aniline	62-53-3	C	12	---	1.9	0.93	1.9 U	1.9	0.92	1.9 U	1.9	0.93	1.9 U	1.9	0.93	1.9 U	1.9	0.93	1.9 U
Anthracene	120-12-7	N	1,100	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Aramite, Total	140-57-8	C	2.7	---	1.4	0.11	1.4 U	1.4	0.1	1.4 U	1.4	0.11	1.4 U	1.4	0.11	1.4 U	1.4	0.11	1.4 U
Benzo[a]anthracene	56-55-3	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Benzo[a]pyrene	50-32-8	C	0.0029	0.2	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Benzo[b]fluoranthene	205-99-2	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Benzo[g,h,i]perylene	191-24-2	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Benzo[k]fluoranthene	207-08-9	C	0.29	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Benzyl alcohol	100-51-6	N	370	---	0.95	0.13	0.95 U	0.95	0.13	0.95 U	0.96	0.13	0.96 U	0.96	0.13	0.96 U	0.95	0.13	0.95 U
Bis(2-chloroethoxy)methane	111-91-1	N	11	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---	0.95	0.095	0.95 U	0.95	0.095	**0.22 J**	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6	1.9	0.61	1.9 U	1.9	0.61	1.9 U	1.9	0.61	1.9 U	1.9	0.61	1.9 U	1.9	0.61	1.9 U
Butyl benzyl phthalate	85-68-7	C	35	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U
Chrysene	218-01-9	C	2.9	---	0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.043	0.19 U
Diallate	2303-16-4	C	1.1	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Dibenz(a,h)anthracene	53-70-3	C	0.0029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Dibenzofuran	132-64-9	N	3.7	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Diethyl phthalate	84-66-2	N	2,900	---	0.95	0.11	0.95 U	0.95	0.1	0.95 U	0.96	0.11	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U
Dimethoate	60-51-5	N	0.73	---	1.9	0.11	1.9 U	1.9	0.11	1.9 U	1.9	0.12	1.9 U	1.9	0.11	1.9 U	1.9	0.11	1.9 U
Dimethyl phthalate	131-11-3	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Di-n-butyl phthalate	84-74-2	N	370	---	0.95	0.37	0.95 U	0.95	0.37	0.95 U	0.96	0.37	0.96 U	0.96	0.37	0.96 U	0.95	0.37	0.95 U
Di-n-octyl phthalate	117-84-0	---	---	---	0.95	0.16	0.95 U	0.95	0.16	0.95 U	0.96	0.16	0.96 U	0.96	0.16	0.96 U	0.95	0.16	0.95 U
Disulfoton	298-04-4	N	0.15	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Ethyl methanesulfonate	62-50-0	---	---	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U
Ethyl Parathion	56-38-2	N	22	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U
Famphur	52-85-7	---	---	---	0.95	0.15	0.95 UL	0.95	0.15	0.95 UL	0.96	0.15	0.96 U	0.96	0.15	0.96 UL	0.95	0.15	0.95 UL
Fluoranthene	206-44-0	N	150	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Fluorene	86-73-7	N	150	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Hexachlorobenzene	118-74-1	C	0.042	1	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Hexachlorobutadiene	87-68-3	C	0.86	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Hexachlorocyclopentadiene	77-47-4	N	22	50	1.9	0.48	1.9 U	1.9	0.47	1.9 U	1.9	0.48	1.9 U	1.9	0.48	1.9 U	1.9	0.48	1.9 U
Hexachloroethane	67-72-1	C	4.8	---	0.95	0.48	0.95 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.48	0.95 U
Hexachlorophene	70-30-4	N	1.1	---	480	24	480 UL	470	24	470 UL	480	24	**480 R**	480	24	480 UL	480	24	480 UL
Hexachloropropene	1888-71-7	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Isophorone	78-59-1	C	71	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Isosafrole	120-58-1	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
m-Dinitrobenzene	99-65-0	N	0.37	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Methapyrilene	91-80-5	---	---	---	190	1.2	190 U	190	1.2	190 U	190	1.2	190 U	190	1.2	190 U	190	1.2	190 U
Methyl methanesulfonate	66-27-3	C	0.68	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U
Methyl parathion	298-00-0	N	0.91	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U
Naphthalene	91-20-3	C	0.14	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Nitrobenzene	98-95-3	C	0.12	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
N-Nitrosodiethylamine	55-18-5	C	0.00014	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-5 4/29/2011			MW-5 DUP 4/29/2011			MW-5U 4/29/2011			MW-6 4/26/2011			MW-7L 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
4-Chloroaniline	106-47-8	C	0.34	---	1.9	0.34	1.9 U	1.9	0.34	1.9 U	1.9	0.35	1.9 U	2.2	0.4	2.2 U	1.9	0.34	1.9 U
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
4-Nitroaniline	100-01-6	C	3.4	---	4.7	0.47	4.7 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U	5.5	0.55	5.5 U	4.8	0.48	4.8 U
4-Nitrophenol	100-02-7	---	---	---	4.7	0.47	4.7 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U	5.5	0.55	5.5 U	4.8	0.48	4.8 U
4-Nitroquinoline-1-oxide	56-57-5	---	---	---	1.9	1	**1.9 R**	1.9	1	**1.9 R**	1.9	1.1	**1.9 R**	2.2	1.2	**2.2 R**	1.9	1	**1.9 R**
5-Nitro-o-toluidine	99-55-8	C	7.5	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
7,12-Dimethylbenz(a)anthracene	57-97-6	C	0.000086	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.97	0.19	0.97 U	1.1	0.22	1.1 U	0.95	0.19	0.95 U
Acenaphthene	83-32-9	N	220	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Acenaphthylene	208-96-8	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Acetophenone	98-86-2	N	370	---	0.95	0.095	0.95 U	0.95	0.095	**0.1 B**	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
alpha,alpha-Dimethyl phenethylamine	122-09-8	---	---	---	9.5	3.2	9.5 U	9.5	3.2	9.5 U	9.7	3.3	9.7 U	11	3.7	11 U	9.5	3.2	9.5 U
Aniline	62-53-3	C	12	---	1.9	0.92	1.9 U	1.9	0.93	1.9 U	1.9	0.94	1.9 U	2.2	1.1	2.2 U	1.9	0.92	1.9 U
Anthracene	120-12-7	N	1,100	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Aramite, Total	140-57-8	C	2.7	---	1.4	0.1	1.4 U	1.4	0.1	1.4 U	1.5	0.11	1.5 U	1.6	0.12	1.6 U	1.4	0.1	1.4 U
Benzo[a]anthracene	56-55-3	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Benzo[a]pyrene	50-32-8	C	0.0029	0.2	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Benzo[b]fluoranthene	205-99-2	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Benzo[g,h,i]perylene	191-24-2	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Benzo[k]fluoranthene	207-08-9	C	0.29	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Benzyl alcohol	100-51-6	N	370	---	0.95	0.13	0.95 U	0.95	0.13	0.95 U	0.97	0.14	0.97 U	1.1	0.15	1.1 U	0.95	0.13	0.95 U
Bis(2-chloroethoxy)methane	111-91-1	N	11	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6	1.9	0.61	1.9 U	1.9	0.61	1.9 U	1.9	0.62	1.9 U	2.2	0.7	2.2 U	1.9	0.61	1.9 U
Butyl benzyl phthalate	85-68-7	C	35	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.97	0.12	0.97 U	1.1	0.13	1.1 U	0.95	0.11	0.95 U
Chrysene	218-01-9	C	2.9	---	0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.044	0.19 U	0.22	0.049	0.22 U	0.19	0.04	0.19 U
Diallate	2303-16-4	C	1.1	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Dibenz(a,h)anthracene	53-70-3	C	0.0029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Dibenzofuran	132-64-9	N	3.7	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Diethyl phthalate	84-66-2	N	2,900	---	0.95	0.1	0.95 U	0.95	0.1	0.95 U	0.97	0.11	0.97 U	1.1	0.12	1.1 U	0.95	0.1	0.95 U
Dimethoate	60-51-5	N	0.73	---	1.9	0.11	1.9 U	1.9	0.11	1.9 U	1.9	0.12	1.9 U	2.2	0.13	2.2 U	1.9	0.11	1.9 U
Dimethyl phthalate	131-11-3	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Di-n-butyl phthalate	84-74-2	N	370	---	0.95	0.37	0.95 U	0.95	0.37	0.95 U	0.97	0.38	0.97 U	1.1	0.43	1.1 U	0.95	0.37	0.95 U
Di-n-octyl phthalate	117-84-0	---	---	---	0.95	0.16	0.95 U	0.95	0.16	0.95 U	0.97	0.16	0.97 U	1.1	0.19	1.1 U	0.95	0.16	0.95 U
Disulfoton	298-04-4	N	0.15	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Ethyl methanesulfonate	62-50-0	---	---	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.097	1.9 U	2.2	0.11	2.2 U	1.9	0.1	1.9 U
Ethyl Parathion	56-38-2	N	22	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.097	1.9 U	2.2	0.11	2.2 U	1.9	0.1	1.9 U
Famphur	52-85-7	---	---	---	0.95	0.15	0.95 UL	0.95	0.15	0.95 UL	0.97	0.15	0.97 UL	1.1	0.18	1.1 U	0.95	0.15	0.95 U
Fluoranthene	206-44-0	N	150	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Fluorene	86-73-7	N	150	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Hexachlorobenzene	118-74-1	C	0.042	1	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Hexachlorobutadiene	87-68-3	C	0.86	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Hexachlorocyclopentadiene	77-47-4	N	22	50	1.9	0.47	1.9 U	1.9	0.48	1.9 U	1.9	0.48	1.9 U	2.2	0.55	2.2 U	1.9	0.48	1.9 U
Hexachloroethane	67-72-1	C	4.8	---	0.95	0.47	0.95 U	0.95	0.48	0.95 U	0.97	0.48	0.97 U	1.1	0.55	1.1 U	0.95	0.48	0.95 U
Hexachlorophene	70-30-4	N	1.1	---	470	24	470 UL	480	24	480 UL	480	24	480 UL	550	27	**550 R**	480	24	480 UL
Hexachloropropene	1888-71-7	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Isophorone	78-59-1	C	71	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Isosafrole	120-58-1	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
m-Dinitrobenzene	99-65-0	N	0.37	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Methapyrilene	91-80-5	---	---	---	190	1.2	190 U	190	1.2	190 U	190	1.3	190 U	220	1.4	220 U	190	1.2	190 U
Methyl methanesulfonate	66-27-3	C	0.68	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.097	1.9 U	2.2	0.11	2.2 U	1.9	0.1	1.9 U
Methyl parathion	298-00-0	N	0.91	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.97	0.13	0.97 U	1.1	0.14	1.1 U	0.95	0.12	0.95 U
Naphthalene	91-20-3	C	0.14	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Nitrobenzene	98-95-3	C	0.12	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
N-Nitrosodiethylamine	55-18-5	C	0.00014	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-7U 4/28/2011			MW-8D 4/26/2011			MW-8U 4/26/2011			MW-9 4/29/2011			MW-10 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
4-Chloroaniline	106-47-8	C	0.34	---	1.9	0.34	1.9 U	1.9	0.34	1.9 U	1.9	0.34	1.9 U	1.9	0.34	1.9 U	1.9	0.35	1.9 U
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
4-Nitroaniline	100-01-6	C	3.4	---	4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.7	0.47	4.7 U	4.8	0.48	4.8 U
4-Nitrophenol	100-02-7	---	---	---	4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.7	0.47	4.7 U	4.8	0.48	4.8 U
4-Nitroquinoline-1-oxide	56-57-5	---	---	---	1.9	1	**1.9 R**	1.9	1	**1.9 R**	1.9	1.1	**1.9 R**	1.9	1	**1.9 R**	1.9	1.1	**1.9 R**
5-Nitro-o-toluidine	99-55-8	C	7.5	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
7,12-Dimethylbenz(a)anthracene	57-97-6	C	0.000086	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U
Acenaphthene	83-32-9	N	220	---	0.19	0.095	**0.17 J**	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Acenaphthylene	208-96-8	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Acetophenone	98-86-2	N	370	---	0.95	0.095	0.95 U	0.95	0.095	**0.11 B**	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
alpha,alpha-Dimethyl phenethylamine	122-09-8	---	---	---	9.5	3.2	9.5 U	9.5	3.2	9.5 U	9.6	3.2	9.6 U	9.5	3.2	9.5 U	9.6	3.3	9.6 U
Aniline	62-53-3	C	12	---	1.9	0.92	1.9 U	1.9	0.92	1.9 U	1.9	0.93	1.9 U	1.9	0.92	1.9 U	1.9	0.93	1.9 U
Anthracene	120-12-7	N	1,100	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Aramite, Total	140-57-8	C	2.7	---	1.4	0.1	1.4 U	1.4	0.1	1.4 U	1.4	0.11	1.4 U	1.4	0.1	1.4 U	1.4	0.11	1.4 U
Benzo[a]anthracene	56-55-3	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Benzo[a]pyrene	50-32-8	C	0.0029	0.2	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Benzo[b]fluoranthene	205-99-2	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Benzo[g,h,i]perylene	191-24-2	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Benzo[k]fluoranthene	207-08-9	C	0.29	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Benzyl alcohol	100-51-6	N	370	---	0.95	0.13	0.95 U	0.95	0.13	0.95 U	0.96	0.13	0.96 U	0.95	0.13	0.95 U	0.96	0.13	0.96 U
Bis(2-chloroethoxy)methane	111-91-1	N	11	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6	1.9	0.61	1.9 U	1.9	0.61	1.9 U	1.9	0.61	1.9 U	1.9	0.61	1.9 U	1.9	0.62	1.9 U
Butyl benzyl phthalate	85-68-7	C	35	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U
Chrysene	218-01-9	C	2.9	---	0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.043	0.19 U
Diallate	2303-16-4	C	1.1	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Dibenz(a,h)anthracene	53-70-3	C	0.0029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Dibenzofuran	132-64-9	N	3.7	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Diethyl phthalate	84-66-2	N	2,900	---	0.95	0.1	0.95 U	0.95	0.1	0.95 U	0.96	0.11	0.96 U	0.95	0.1	0.95 U	0.96	0.11	0.96 U
Dimethoate	60-51-5	N	0.73	---	1.9	0.11	1.9 U	1.9	0.11	1.9 U	1.9	0.11	1.9 U	1.9	0.11	1.9 U	1.9	0.12	1.9 U
Dimethyl phthalate	131-11-3	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Di-n-butyl phthalate	84-74-2	N	370	---	0.95	0.37	0.95 U	0.95	0.37	0.95 U	0.96	0.37	0.96 U	0.95	0.37	0.95 U	0.96	0.38	0.96 U
Di-n-octyl phthalate	117-84-0	---	---	---	0.95	0.16	0.95 U	0.95	0.16	0.95 U	0.96	0.16	0.96 U	0.95	0.16	0.95 U	0.96	0.16	0.96 U
Disulfoton	298-04-4	N	0.15	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Ethyl methanesulfonate	62-50-0	---	---	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U
Ethyl Parathion	56-38-2	N	22	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U
Famphur	52-85-7	---	---	---	0.95	0.15	0.95 U	0.95	0.15	0.95 U	0.96	0.15	0.96 U	0.95	0.15	0.95 UL	0.96	0.15	0.96 U
Fluoranthene	206-44-0	N	150	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Fluorene	86-73-7	N	150	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Hexachlorobenzene	118-74-1	C	0.042	1	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Hexachlorobutadiene	87-68-3	C	0.86	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	**0.12 J**
Hexachlorocyclopentadiene	77-47-4	N	22	50	1.9	0.48	1.9 U	1.9	0.48	1.9 U	1.9	0.48	1.9 U	1.9	0.47	1.9 U	1.9	0.48	1.9 U
Hexachloroethane	67-72-1	C	4.8	---	0.95	0.48	0.95 U	0.95	0.48	0.95 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U
Hexachlorophene	70-30-4	N	1.1	---	480	24	480 UL	480	24	**480 R**	480	24	**480 R**	470	24	470 UL	480	24	480 UL
Hexachloropropene	1888-71-7	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Isophorone	78-59-1	C	71	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Isosafrole	120-58-1	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
m-Dinitrobenzene	99-65-0	N	0.37	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Methapyrilene	91-80-5	---	---	---	190	1.2	190 U	190	1.2	190 U	190	1.2	190 U	190	1.2	190 U	190	1.3	190 U
Methyl methanesulfonate	66-27-3	C	0.68	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U
Methyl parathion	298-00-0	N	0.91	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U	0.96	0.13	0.96 U
Naphthalene	91-20-3	C	0.14	---	0.19	0.095	**0.18 J**	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Nitrobenzene	98-95-3	C	0.12	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
N-Nitrosodiethylamine	55-18-5	C	0.00014	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
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	CAS Number	[1]C or N	[2]Tapwater	MCL	NAT-1 4/28/2011			NAT-2 4/28/2011			NAT-3 4/28/2011			NAT-3 DUP 4/28/2011			NAT-4 5/2/2011			NAT-4 (Filtered) 5/2/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																						
4-Chloroaniline	106-47-8	C	0.34	---				1.9	0.35	1.9 U	1.9	0.35	1.9 U	1.9	0.34	1.9 U						
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
4-Nitroaniline	100-01-6	C	3.4	---				4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.7	0.47	4.7 U						
4-Nitrophenol	100-02-7	---	---	---				4.8	0.48	4.8 U	4.8	0.48	4.8 U	4.7	0.47	4.7 U						
4-Nitroquinoline-1-oxide	56-57-5	---	---	---				1.9	1.1	**1.9 R**	1.9	1.1	**1.9 R**	1.9	1	**1.9 R**						
5-Nitro-o-toluidine	99-55-8	C	7.5	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
7,12-Dimethylbenz(a)anthracene	57-97-6	C	0.000086	---				0.96	0.19	0.96 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U						
Acenaphthene	83-32-9	N	220	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Acenaphthylene	208-96-8	---	---	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Acetophenone	98-86-2	N	370	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
alpha,alpha-Dimethyl phenethylamine	122-09-8	---	---	---				9.6	3.3	9.6 U	9.6	3.3	9.6 U	9.5	3.2	9.5 U						
Aniline	62-53-3	C	12	---				1.9	0.94	1.9 U	1.9	0.93	1.9 U	1.9	0.92	1.9 U						
Anthracene	120-12-7	N	1,100	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Aramite, Total	140-57-8	C	2.7	---				1.4	0.11	1.4 U	1.4	0.11	1.4 U	1.4	0.1	1.4 U						
Benzo[a]anthracene	56-55-3	C	0.029	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Benzo[a]pyrene	50-32-8	C	0.0029	0.2				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Benzo[b]fluoranthene	205-99-2	C	0.029	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Benzo[g,h,i]perylene	191-24-2	---	---	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Benzo[k]fluoranthene	207-08-9	C	0.29	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Benzyl alcohol	100-51-6	N	370	---				0.96	0.14	0.96 U	0.96	0.13	0.96 U	0.95	0.13	0.95 U						
Bis(2-chloroethoxy)methane	111-91-1	N	11	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6				1.9	0.62	1.9 U	1.9	0.61	1.9 U	1.9	0.61	1.9 U						
Butyl benzyl phthalate	85-68-7	C	35	---				0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.11	0.95 U						
Chrysene	218-01-9	C	2.9	---				0.19	0.043	0.19 U	0.19	0.043	0.19 U	0.19	0.043	0.19 U						
Diallate	2303-16-4	C	1.1	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Dibenz(a,h)anthracene	53-70-3	C	0.0029	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Dibenzofuran	132-64-9	N	3.7	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Diethyl phthalate	84-66-2	N	2,900	---				0.96	0.11	0.96 U	0.96	0.11	0.96 U	0.95	0.1	0.95 U						
Dimethoate	60-51-5	N	0.73	---				1.9	0.12	1.9 U	1.9	0.12	1.9 U	1.9	0.11	1.9 U						
Dimethyl phthalate	131-11-3	---	---	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Di-n-butyl phthalate	84-74-2	N	370	---				0.96	0.38	0.96 U	0.96	0.37	0.96 U	0.95	0.37	0.95 U						
Di-n-octyl phthalate	117-84-0	---	---	---				0.96	0.16	0.96 U	0.96	0.16	0.96 U	0.95	0.16	0.95 U						
Disulfoton	298-04-4	N	0.15	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Ethyl methanesulfonate	62-50-0	---	---	---				1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U						
Ethyl Parathion	56-38-2	N	22	---				1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U						
Famphur	52-85-7	---	---	---				0.96	0.15	0.96 U	0.96	0.15	0.96 U	0.95	0.15	0.95 U						
Fluoranthene	206-44-0	N	150	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Fluorene	86-73-7	N	150	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Hexachlorobenzene	118-74-1	C	0.042	1				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Hexachlorobutadiene	87-68-3	C	0.86	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Hexachlorocyclopentadiene	77-47-4	N	22	50				1.9	0.48	1.9 U	1.9	0.48	1.9 U	1.9	0.47	1.9 U						
Hexachloroethane	67-72-1	C	4.8	---				0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U						
Hexachlorophene	70-30-4	N	1.1	---				480	24	480 UL	480	24	480 UL	470	24	470 UL						
Hexachloropropene	1888-71-7	---	---	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Isophorone	78-59-1	C	71	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Isosafrole	120-58-1	---	---	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
m-Dinitrobenzene	99-65-0	N	0.37	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Methapyrilene	91-80-5	---	---	---				190	1.3	190 U	190	1.2	190 U	190	1.2	190 U						
Methyl methanesulfonate	66-27-3	C	0.68	---				1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U						
Methyl parathion	298-00-0	N	0.91	---				0.96	0.13	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U						
Naphthalene	91-20-3	C	0.14	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Nitrobenzene	98-95-3	C	0.12	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
N-Nitrosodiethylamine	55-18-5	C	0.00014	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
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	CAS Number	[1]C or N	[2]Tapwater	MCL	RAB-MW2 4/28/2011			RAB-MW3 4/28/2011			RAB-MW4 4/28/2011			SDB-MW-1 4/26/2011			SDB-MW-2 4/26/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
4-Chloroaniline	106-47-8	C	0.34	---															
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---															
4-Nitroaniline	100-01-6	C	3.4	---															
4-Nitrophenol	100-02-7	---	---	---															
4-Nitroquinoline-1-oxide	56-57-5	---	---	---															
5-Nitro-o-toluidine	99-55-8	C	7.5	---															
7,12-Dimethylbenz(a)anthracene	57-97-6	C	0.000086	---															
Acenaphthene	83-32-9	N	220	---															
Acenaphthylene	208-96-8	---	---	---															
Acetophenone	98-86-2	N	370	---															
alpha,alpha-Dimethyl phenethylamine	122-09-8	---	---	---															
Aniline	62-53-3	C	12	---															
Anthracene	120-12-7	N	1,100	---															
Aramite, Total	140-57-8	C	2.7	---															
Benzo[a]anthracene	56-55-3	C	0.029	---															
Benzo[a]pyrene	50-32-8	C	0.0029	0.2															
Benzo[b]fluoranthene	205-99-2	C	0.029	---															
Benzo[g,h,i]perylene	191-24-2	---	---	---															
Benzo[k]fluoranthene	207-08-9	C	0.29	---															
Benzyl alcohol	100-51-6	N	370	---															
Bis(2-chloroethoxy)methane	111-91-1	N	11	---															
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---															
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6															
Butyl benzyl phthalate	85-68-7	C	35	---															
Chrysene	218-01-9	C	2.9	---															
Diallate	2303-16-4	C	1.1	---															
Dibenz(a,h)anthracene	53-70-3	C	0.0029	---															
Dibenzofuran	132-64-9	N	3.7	---															
Diethyl phthalate	84-66-2	N	2,900	---															
Dimethoate	60-51-5	N	0.73	---															
Dimethyl phthalate	131-11-3	---	---	---															
Di-n-butyl phthalate	84-74-2	N	370	---															
Di-n-octyl phthalate	117-84-0	---	---	---															
Disulfoton	298-04-4	N	0.15	---															
Ethyl methanesulfonate	62-50-0	---	---	---															
Ethyl Parathion	56-38-2	N	22	---															
Famphur	52-85-7	---	---	---															
Fluoranthene	206-44-0	N	150	---															
Fluorene	86-73-7	N	150	---															
Hexachlorobenzene	118-74-1	C	0.042	1															
Hexachlorobutadiene	87-68-3	C	0.86	---															
Hexachlorocyclopentadiene	77-47-4	N	22	50															
Hexachloroethane	67-72-1	C	4.8	---															
Hexachlorophene	70-30-4	N	1.1	---															
Hexachloropropene	1888-71-7	---	---	---															
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	---															
Isophorone	78-59-1	C	71	---															
Isosafrole	120-58-1	---	---	---															
m-Dinitrobenzene	99-65-0	N	0.37	---															
Methapyrilene	91-80-5	---	---	---															
Methyl methanesulfonate	66-27-3	C	0.68	---															
Methyl parathion	298-00-0	N	0.91	---															
Naphthalene	91-20-3	C	0.14	---															
Nitrobenzene	98-95-3	C	0.12	---															
N-Nitrosodiethylamine	55-18-5	C	0.00014	---															

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Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	SDB-MW-3 4/26/2011			WWL-1 4/27/2011			WWL-2 4/27/2011			WWL-3L 4/27/2011			WWL-3U 4/27/2011			VFSP-MW-1 4/29/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																						
4-Chloroaniline	106-47-8	C	0.34	---										1.9	0.34	1.9 U	1.9	0.35	1.9 U			
4-Chlorophenyl phenyl ether	7005-72-3	---	---	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
4-Nitroaniline	100-01-6	C	3.4	---										4.8	0.48	4.8 U	4.8	0.48	4.8 U			
4-Nitrophenol	100-02-7	---	---	---										4.8	0.48	4.8 U	4.8	0.48	4.8 U			
4-Nitroquinoline-1-oxide	56-57-5	---	---	---										1.9	1.1	**1.9 R**	1.9	1.1	**1.9 R**			
5-Nitro-o-toluidine	99-55-8	C	7.5	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
7,12-Dimethylbenz(a)anthracene	57-97-6	C	0.000086	---										0.96	0.19	0.96 U	0.96	0.19	0.96 U			
Acenaphthene	83-32-9	N	220	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Acenaphthylene	208-96-8	---	---	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Acetophenone	98-86-2	N	370	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
alpha,alpha-Dimethyl phenethylamine	122-09-8	---	---	---										9.6	3.3	9.6 U	9.6	3.3	9.6 U			
Aniline	62-53-3	C	12	---										1.9	0.93	1.9 U	1.9	0.93	1.9 U			
Anthracene	120-12-7	N	1,100	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Aramite, Total	140-57-8	C	2.7	---										1.4	0.11	1.4 U	1.4	0.11	1.4 U			
Benzo[a]anthracene	56-55-3	C	0.029	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Benzo[a]pyrene	50-32-8	C	0.0029	0.2										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Benzo[b]fluoranthene	205-99-2	C	0.029	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Benzo[g,h,i]perylene	191-24-2	---	---	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Benzo[k]fluoranthene	207-08-9	C	0.29	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Benzyl alcohol	100-51-6	N	370	---										0.96	0.13	0.96 U	0.96	0.13	0.96 U			
Bis(2-chloroethoxy)methane	111-91-1	N	11	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6										1.9	0.61	1.9 U	1.9	0.62	1.9 U			
Butyl benzyl phthalate	85-68-7	C	35	---										0.96	0.11	0.96 U	0.96	0.12	0.96 U			
Chrysene	218-01-9	C	2.9	---										0.19	0.043	0.19 U	0.19	0.043	0.19 U			
Diallate	2303-16-4	C	1.1	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Dibenz(a,h)anthracene	53-70-3	C	0.0029	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Dibenzofuran	132-64-9	N	3.7	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Diethyl phthalate	84-66-2	N	2,900	---										0.96	0.11	0.96 U	0.96	0.11	0.96 U			
Dimethoate	60-51-5	N	0.73	---										1.9	0.11	1.9 U	1.9	0.12	1.9 U			
Dimethyl phthalate	131-11-3	---	---	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Di-n-butyl phthalate	84-74-2	N	370	---										0.96	0.37	0.96 U	0.96	0.38	0.96 U			
Di-n-octyl phthalate	117-84-0	---	---	---										0.96	0.16	0.96 U	0.96	0.16	0.96 U			
Disulfoton	298-04-4	N	0.15	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Ethyl methanesulfonate	62-50-0	---	---	---										1.9	0.096	1.9 U	1.9	0.096	1.9 U			
Ethyl Parathion	56-38-2	N	22	---										1.9	0.096	1.9 U	1.9	0.096	1.9 U			
Famphur	52-85-7	---	---	---										0.96	0.15	0.96 U	0.96	0.15	0.96 U			
Fluoranthene	206-44-0	N	150	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Fluorene	86-73-7	N	150	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Hexachlorobenzene	118-74-1	C	0.042	1										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Hexachlorobutadiene	87-68-3	C	0.86	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Hexachlorocyclopentadiene	77-47-4	N	22	50										1.9	0.48	1.9 U	1.9	0.48	1.9 U			
Hexachloroethane	67-72-1	C	4.8	---										0.96	0.48	0.96 U	0.96	0.48	0.96 U			
Hexachlorophene	70-30-4	N	1.1	---										480	24	480 UL	480	24	480 UL			
Hexachloropropene	1888-71-7	---	---	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Indeno[1,2,3-cd]pyrene	193-39-5	C	0.029	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Isophorone	78-59-1	C	71	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Isosafrole	120-58-1	---	---	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
m-Dinitrobenzene	99-65-0	N	0.37	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Methapyrilene	91-80-5	---	---	---										190	1.2	190 U	190	1.3	190 U			
Methyl methanesulfonate	66-27-3	C	0.68	---										1.9	0.096	1.9 U	1.9	0.096	1.9 U			
Methyl parathion	298-00-0	N	0.91	---										0.96	0.12	0.96 U	0.96	0.13	0.96 U			
Naphthalene	91-20-3	C	0.14	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Nitrobenzene	98-95-3	C	0.12	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
N-Nitrosodiethylamine	55-18-5	C	0.00014	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	LF-1 4/27/2011			LF-2 4/27/2011			LF-3 4/27/2011			LF-4 4/27/2011			LF-5 4/27/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
N-Nitrosodimethylamine	62-75-9	C	0.00042	---	0.95	0.24	0.95 U				0.95	0.24	0.95 U	0.95	0.24	0.95 U	1	0.25	1 U
N-Nitrosodi-n-butylamine	924-16-3	C	0.0024	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
N-Nitrosodi-n-propylamine	621-64-7	C	0.0096	---	0.95	0.12	0.95 U				0.95	0.12	0.95 U	0.95	0.12	0.95 U	1	0.13	1 U
N-Nitrosodiphenylamine	86-30-6	C	14	---	0.95	0.35	0.95 U				0.95	0.35	0.95 U	0.95	0.35	0.95 U	1	0.37	1 U
N-Nitrosomethylethylamine	10595-95-6	C	0.0031	---	1.9	0.095	1.9 U				1.9	0.095	1.9 U	1.9	0.095	1.9 U	2	0.1	2 U
N-Nitrosomorpholine	59-89-2	C	0.01	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
N-Nitrosopiperidine	100-75-4	C	0.0072	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
N-Nitrosopyrrolidine	930-55-2	C	0.032	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
o,o',o''-Triethylphosphorothioate	126-68-1	---	---	---	0.95	0.12	0.95 U				0.95	0.12	0.95 U	0.95	0.12	0.95 U	1	0.13	1 U
o-Toluidine	95-53-4	---	---	---	0.95	0.12	0.95 U				0.95	0.12	0.95 U	0.95	0.12	0.95 U	1	0.13	1 U
p-Dimethylamino azobenzene	60-11-7	C	0.015	---	4.8	0.14	4.8 U				4.7	0.14	4.7 U	4.8	0.14	4.8 U	5	0.15	5 U
Pentachlorobenzene	608-93-5	N	2.9	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Pentachloronitrobenzene	82-68-8	C	0.26	---	0.95	0.48	0.95 U				0.95	0.47	0.95 U	0.95	0.48	0.95 U	1	0.5	1 U
Pentachlorophenol	87-86-5	C	0.17	1	4.8	0.38	4.8 U				4.7	0.38	4.7 U	4.8	0.38	4.8 U	5	0.4	5 U
Phenacetin	62-44-2	C	31	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Phenanthrene	85-01-8	---	---	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Phenol	108-95-2	N	1,100	---	0.95	0.12	0.95 U				0.95	0.12	0.95 U	0.95	0.12	0.95 U	1	0.13	1 U
Phenyl ether	101-84-8	---	---	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Phorate	298-02-2	N	0.73	---	0.95	0.19	0.95 U				0.95	0.19	0.95 U	0.95	0.19	0.95 U	1	0.2	1 U
p-Phenylene diamine	106-50-3	N	690	---	190	15	190 U				190	15	190 U	190	15	190 U	200	16	200 U
Pronamide	23950-58-5	N	270	---	0.95	0.11	0.95 U				0.95	0.11	0.95 U	0.95	0.11	0.95 U	1	0.12	1 U
Pyrene	129-00-0	N	110	---	0.19	0.095	0.19 U				0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.2	0.1	0.2 U
Pyridine	110-86-1	N	3.7	---	4.8	0.69	4.8 U				4.7	0.69	4.7 U	4.8	0.7	4.8 U	5	0.73	5 U
Safrole, Total	94-59-7	N	0.098	---	0.95	0.095	0.95 U				0.95	0.095	0.95 U	0.95	0.095	0.95 U	1	0.1	1 U
Sulfotepp	3689-24-5	N	1.8	---	0.95	0.13	0.95 U				0.95	0.13	0.95 U	0.95	0.13	0.95 U	1	0.14	1 U
Thionazin	297-97-2	---	---	---	0.95	0.19	0.95 U				0.95	0.19	0.95 U	0.95	0.19	0.95 U	1	0.2	1 U
Semivolatile Organic Compounds - TICs (ug/L)																			
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---															
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---			**18 J**									**20 J N**			**14 J N**
Diethyltoluamide[3]	134-62-3	---	3700																
Hexadecane[3]	544-76-3	---	88	---												**2 J N**			
Nonadecane[3]	629-92-5	---	88	---															**1.3 J N**
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---															
Octadecanoic acid, butyl ester	123-95-5	---	---	---												**2.9 J N**			
Oleic Acid	112-80-1	---	---	---															**7 B**
Phosphine oxide, triphenyl-	791-28-6	---	---	---															
Sulfur	7704-34-9	---	---	---															
Sulfur, mol. (S8)	10544-50-0	---	---	---															
Tetracosane	646-31-1	---	---	---															**1.7 J N**
Unknown		---	---	---			**1.1 J**						**200 J**			**1.4 J**			**1.7 J**
Unknown		---	---	---			**10 J**						**220 J**			**6.3 B**			**9.8 J**
Unknown		---	---	---			**2.3 J**						**170 J**			**2.2 B**			**7.1 B**
Unknown		---	---	---			**1.8 J**						**18 J**			**1.3 J**			**1.9 B**
Unknown		---	---	---			**1.9 J**						**42 J**			**1.4 B**			
Unknown		---	---	---			**1.3 J**						**120 J**			**4.4 B**			
Unknown		---	---	---			**1.7 J**						**21 J**						
Unknown		---	---	---									**11 B**						
Unknown		---	---	---									**11 J**						
Unknown		---	---	---															
Unknown Aldol Condensate		---	---	---			**34 B**						**44 B**			**27 A**			**19 A**
Unknown Organic Acid		---	---	---			**2.2 B**												**4.6 B**
Unknown Organic Acid		---	---	---															
Unknown Organic Acid		---	---	---															

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-1 5/2/2011			MW-2 4/29/2011			MW-3 4/26/2011			MW-4 4/29/2011			MW-4U 4/29/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
N-Nitrosodimethylamine	62-75-9	C	0.00042	---	0.95	0.24	0.95 U	0.95	0.24	0.95 U	0.96	0.24	0.96 U	0.96	0.24	0.96 U	0.95	0.24	0.95 U
N-Nitrosodi-n-butylamine	924-16-3	C	0.0024	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
N-Nitrosodi-n-propylamine	621-64-7	C	0.0096	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U
N-Nitrosodiphenylamine	86-30-6	C	14	---	0.95	0.35	0.95 U	0.95	0.35	0.95 U	0.96	0.35	0.96 U	0.96	0.35	0.96 U	0.95	0.35	0.95 U
N-Nitrosomethylethylamine	10595-95-6	C	0.0031	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U
N-Nitrosomorpholine	59-89-2	C	0.01	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
N-Nitrosopiperidine	100-75-4	C	0.0072	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
N-Nitrosopyrrolidine	930-55-2	C	0.032	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
o,o',o"-Triethylphosphorothioate	126-68-1	---	---	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U
o-Toluidine	95-53-4	---	---	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U
p-Dimethylamino azobenzene	60-11-7	C	0.015	---	4.8	0.14	4.8 U	4.7	0.14	4.7 U	4.8	0.14	4.8 U	4.8	0.14	4.8 U	4.8	0.14	4.8 U
Pentachlorobenzene	608-93-5	N	2.9	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Pentachloronitrobenzene	82-68-8	C	0.26	---	0.95	0.48	0.95 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.48	0.95 U
Pentachlorophenol	87-86-5	C	0.17	1	4.8	0.38	4.8 U	4.7	0.38	4.7 U	4.8	0.38	4.8 U	4.8	0.38	4.8 U	4.8	0.38	4.8 U
Phenacetin	62-44-2	C	31	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Phenanthrene	85-01-8	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Phenol	108-95-2	N	1,100	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U
Phenyl ether	101-84-8	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Phorate	298-02-2	N	0.73	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U
p-Phenylene diamine	106-50-3	N	690	---	190	15	190 U	190	15	190 U	190	15	190 U	190	15	190 U	190	15	190 U
Pronamide	23950-58-5	N	270	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U
Pyrene	129-00-0	N	110	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U
Pyridine	110-86-1	N	3.7	---	4.8	0.7	4.8 U	4.7	0.69	4.7 U	4.8	0.7	4.8 U	4.8	0.7	4.8 U	4.8	0.7	4.8 U
Safrole, Total	94-59-7	N	0.098	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U
Sulfotepp	3689-24-5	N	1.8	---	0.95	0.13	0.95 U	0.95	0.13	0.95 U	0.96	0.13	0.96 U	0.96	0.13	0.96 U	0.95	0.13	0.95 U
Thionazin	297-97-2	---	---	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U
Semivolatile Organic Compounds - TICs (ug/L)																			
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---															
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---															
Diethyltoluamide[3]	134-62-3	---	3700				**2 J N**												
Hexadecane[3]	544-76-3	---	88	---															
Nonadecane[3]	629-92-5	---	88	---															
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---			**2.8 J N**												
Octadecanoic acid, butyl ester	123-95-5	---	---	---															
Oleic Acid	112-80-1	---	---	---			**5.2 J N**						**5.6 J N**						
Phosphine oxide, triphenyl-	791-28-6	---	---	---															
Sulfur	7704-34-9	---	---	---															
Sulfur, mol. (S8)	10544-50-0	---	---	---			**7.6 J N**												
Tetracosane	646-31-1	---	---	---															
Unknown		---	---	---			**1.5 J**			**9.3 B**			**79 J**			**11 J**			**18 J**
Unknown		---	---	---			**1.1 J**			**6.2 J**			**5.3 J**			**17 J**			**19 J**
Unknown		---	---	---			**40 J**			**100 J**			**8.7 J**			**28 J**			**67 J**
Unknown		---	---	---			**4.2 J**			**4.8 J**			**45 J**			**17 J**			**58 J**
Unknown		---	---	---			**3.8 B**			**5.6 J**			**41 J**			**110 J**			**11 J**
Unknown		---	---	---						**91 J**			**7.7 J**			**14 J**			**10 J**
Unknown		---	---	---						**49 J**			**18 J**			**15 J**			**36 J**
Unknown		---	---	---						**12 J**			**20 J**			**91 J**			**7.9 J**
Unknown		---	---	---												**38 J**			**10 J**
Unknown		---	---	---															
Unknown Aldol Condensate		---	---	---			**2.6 A**			**8.1 B**			**11 B**						
Unknown Organic Acid		---	---	---						**4 J**						**7.9 J**			**16 J**
Unknown Organic Acid		---	---	---															
Unknown Organic Acid		---	---	---															

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-5 4/29/2011			MW-5 DUP 4/29/2011			MW-5U 4/29/2011			MW-6 4/26/2011			MW-7L 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
N-Nitrosodimethylamine	62-75-9	C	0.00042	---	0.95	0.24	0.95 U	0.95	0.24	0.95 U	0.97	0.24	0.97 U	1.1	0.27	1.1 U	0.95	0.24	0.95 U
N-Nitrosodi-n-butylamine	924-16-3	C	0.0024	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
N-Nitrosodi-n-propylamine	621-64-7	C	0.0096	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.97	0.13	0.97 U	1.1	0.14	1.1 U	0.95	0.12	0.95 U
N-Nitrosodiphenylamine	86-30-6	C	14	---	0.95	0.35	0.95 U	0.95	0.35	0.95 U	0.97	0.36	0.97 U	1.1	0.41	1.1 U	0.95	0.35	0.95 U
N-Nitrosomethylethylamine	10595-95-6	C	0.0031	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.097	1.9 U	2.2	0.11	2.2 U	1.9	0.1	1.9 U
N-Nitrosomorpholine	59-89-2	C	0.01	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
N-Nitrosopiperidine	100-75-4	C	0.0072	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
N-Nitrosopyrrolidine	930-55-2	C	0.032	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
o,o',o''-Triethylphosphorothioate	126-68-1	---	---	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.97	0.13	0.97 U	1.1	0.14	1.1 U	0.95	0.12	0.95 U
o-Toluidine	95-53-4	---	---	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.97	0.13	0.97 U	1.1	0.14	1.1 U	0.95	0.12	0.95 U
p-Dimethylamino azobenzene	60-11-7	C	0.015	---	4.7	0.14	4.7 U	4.8	0.14	4.8 U	4.8	0.15	4.8 U	5.5	0.16	5.5 U	4.8	0.14	4.8 U
Pentachlorobenzene	608-93-5	N	2.9	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Pentachloronitrobenzene	82-68-8	C	0.26	---	0.95	0.47	0.95 U	0.95	0.48	0.95 U	0.97	0.48	0.97 U	1.1	0.55	1.1 U	0.95	0.48	0.95 U
Pentachlorophenol	87-86-5	C	0.17	1	4.7	0.38	4.7 U	4.8	0.38	4.8 U	4.8	0.39	4.8 U	5.5	0.44	5.5 U	4.8	0.38	4.8 U
Phenacetin	62-44-2	C	31	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Phenanthrene	85-01-8	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Phenol	108-95-2	N	1,100	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.97	0.13	0.97 U	1.1	0.14	1.1 U	0.95	0.12	0.95 U
Phenyl ether	101-84-8	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Phorate	298-02-2	N	0.73	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.97	0.19	0.97 U	1.1	0.22	1.1 U	0.95	0.19	0.95 U
p-Phenylene diamine	106-50-3	N	690	---	190	15	190 U	190	15	190 U	190	15	190 U	220	18	220 U	190	15	190 U
Pronamide	23950-58-5	N	270	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.97	0.12	0.97 U	1.1	0.13	1.1 U	0.95	0.11	0.95 U
Pyrene	129-00-0	N	110	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.097	0.19 U	0.22	0.11	0.22 U	0.19	0.1	0.19 U
Pyridine	110-86-1	N	3.7	---	4.7	0.69	4.7 U	4.8	0.7	4.8 U	4.8	0.71	4.8 U	5.5	0.8	5.5 U	4.8	0.7	4.8 U
Safrole, Total	94-59-7	N	0.098	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.97	0.097	0.97 U	1.1	0.11	1.1 U	0.95	0.1	0.95 U
Sulfotepp	3689-24-5	N	1.8	---	0.95	0.13	0.95 U	0.95	0.13	0.95 U	0.97	0.14	0.97 U	1.1	0.15	1.1 U	0.95	0.13	0.95 U
Thionazin	297-97-2	---	---	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.97	0.19	0.97 U	1.1	0.22	1.1 U	0.95	0.19	0.95 U
Semivolatile Organic Compounds - TICs (ug/L)																			
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---															
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---												**16 J N**			
Diethyltoluamide[3]	134-62-3	---	3700																
Hexadecane[3]	544-76-3	---	88	---															
Nonadecane[3]	629-92-5	---	88	---															
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---															
Octadecanoic acid, butyl ester	123-95-5	---	---	---															
Oleic Acid	112-80-1	---	---	---															
Phosphine oxide, triphenyl-	791-28-6	---	---	---															**2.7 J N**
Sulfur	7704-34-9	---	---	---															
Sulfur, mol. (S8)	10544-50-0	---	---	---															
Tetracosane	646-31-1	---	---	---															
Unknown		---	---	---			**21 J**			**45 J**			**19 J**			**11 J**			**2 J**
Unknown		---	---	---			**15 J**			**55 J**			**180 J**			**69 J**			**0.95 J**
Unknown		---	---	---			**95 J**			**100 J**			**10 J**			**40 J**			**6.6 J**
Unknown		---	---	---			**67 J**			**83 J**			**150 J**			**30 J**			**1.1 J**
Unknown		---	---	---			**49 J**			**48 J**			**15 J**			**19 J**			**0.6 J**
Unknown		---	---	---			**30 J**			**36 J**			**80 J**			**31 J**			
Unknown		---	---	---			**35 J**			**41 J**			**52 J**			**10 J**			
Unknown		---	---	---			**30 J**			**41 J**			**30 J**			**17 J**			
Unknown		---	---	---			**24 J**			**30 J**			**20 J**						
Unknown		---	---	---			**17 J**												
Unknown Aldol Condensate		---	---	---															**20 A**
Unknown Organic Acid		---	---	---						**37 J**			**64 J**			**22 J**			**1.1 J**
Unknown Organic Acid		---	---	---															**0.76 J**
Unknown Organic Acid		---	---	---															**0.8 J**

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-7U 4/28/2011			MW-8D 4/26/2011			MW-8U 4/26/2011			MW-9 4/29/2011			MW-10 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
N-Nitrosodimethylamine	62-75-9	C	0.00042	---	0.95	0.24	0.95 U	0.95	0.24	0.95 U	0.96	0.24	0.96 U	0.95	0.24	0.95 U	0.96	0.24	0.96 U
N-Nitrosodi-n-butylamine	924-16-3	C	0.0024	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
N-Nitrosodi-n-propylamine	621-64-7	C	0.0096	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U	0.96	0.13	0.96 U
N-Nitrosodiphenylamine	86-30-6	C	14	---	0.95	0.35	0.95 U	0.95	0.35	0.95 U	0.96	0.35	0.96 U	0.95	0.35	0.95 U	0.96	0.36	0.96 U
N-Nitrosomethylethylamine	10595-95-6	C	0.0031	---	1.9	0.095	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U	1.9	0.096	1.9 U
N-Nitrosomorpholine	59-89-2	C	0.01	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
N-Nitrosopiperidine	100-75-4	C	0.0072	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
N-Nitrosopyrrolidine	930-55-2	C	0.032	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
o,o',o"-Triethylphosphorothioate	126-68-1	---	---	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U	0.96	0.13	0.96 U
o-Toluidine	95-53-4	---	---	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U	0.96	0.13	0.96 U
p-Dimethylamino azobenzene	60-11-7	C	0.015	---	4.8	0.14	4.8 U	4.8	0.14	4.8 U	4.8	0.14	4.8 U	4.7	0.14	4.7 U	4.8	0.14	4.8 U
Pentachlorobenzene	608-93-5	N	2.9	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Pentachloronitrobenzene	82-68-8	C	0.26	---	0.95	0.48	0.95 U	0.95	0.48	0.95 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U	0.96	0.48	0.96 U
Pentachlorophenol	87-86-5	C	0.17	1	4.8	0.38	4.8 U	4.8	0.38	4.8 U	4.8	0.38	4.8 U	4.7	0.38	4.7 U	4.8	0.39	4.8 U
Phenacetin	62-44-2	C	31	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Phenanthrene	85-01-8	---	---	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Phenol	108-95-2	N	1,100	---	0.95	0.12	0.95 U	0.95	0.12	0.95 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U	0.96	0.13	0.96 U
Phenyl ether	101-84-8	---	---	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Phorate	298-02-2	N	0.73	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U
p-Phenylene diamine	106-50-3	N	690	---	190	15	190 U	190	15	190 U	190	15	190 U	190	15	190 U	190	15	190 U
Pronamide	23950-58-5	N	270	---	0.95	0.11	0.95 U	0.95	0.11	0.95 U	0.96	0.11	0.96 U	0.95	0.11	0.95 U	0.96	0.12	0.96 U
Pyrene	129-00-0	N	110	---	0.19	0.095	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U	0.19	0.096	0.19 U
Pyridine	110-86-1	N	3.7	---	4.8	0.69	4.8 U	4.8	0.7	4.8 U	4.8	0.7	4.8 U	4.7	0.69	4.7 U	4.8	0.7	4.8 U
Safrole, Total	94-59-7	N	0.098	---	0.95	0.095	0.95 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U	0.96	0.096	0.96 U
Sulfotepp	3689-24-5	N	1.8	---	0.95	0.13	0.95 U	0.95	0.13	0.95 U	0.96	0.13	0.96 U	0.95	0.13	0.95 U	0.96	0.13	0.96 U
Thionazin	297-97-2	---	---	---	0.95	0.19	0.95 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U	0.96	0.19	0.96 U
Semivolatile Organic Compounds - TICs (ug/L)																			
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---			**3.3 J N**						**19 B**						**2.6 J N**
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---						**19 J N**									
Diethyltoluamide[3]	134-62-3	---	3700																**7.7 J N**
Hexadecane[3]	544-76-3	---	88	---															
Nonadecane[3]	629-92-5	---	88	---															
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---															
Octadecanoic acid, butyl ester	123-95-5	---	---	---						**3.3 J N**									**1.2 J N**
Oleic Acid	112-80-1	---	---	---			**2.2 J N**												
Phosphine oxide, triphenyl-	791-28-6	---	---	---															
Sulfur	7704-34-9	---	---	---												**6.3 J N**			
Sulfur, mol. (S8)	10544-50-0	---	---	---															
Tetracosane	646-31-1	---	---	---															
Unknown		---	---	---			**52 J**			**29 J**			**4.8 J**			**5.8 J**			**1.6 J**
Unknown		---	---	---			**2.4 J**			**1.8 J**			**320 J**			**3.9 J**			**1.1 J**
Unknown		---	---	---			**1.9 J**			**1.5 J**			**58 J**			**6.4 J**			**0.76 J**
Unknown		---	---	---			**160 J**			**27 J**			**34 J**			**6.7 J**			**1 J**
Unknown		---	---	---			**2.5 J**			**5.5 B**			**6.3 J**			**140 J**			**1.6 J**
Unknown		---	---	---			**3 J**			**1.5 B**			**24 J**			**3.1 J**			
Unknown		---	---	---			**1.4 J**			**1.5 J**			**8.2 J**			**8.1 J**			
Unknown		---	---	---			**49 J**			**2.5 J**									
Unknown		---	---	---															
Unknown		---	---	---															
Unknown Aldol Condensate		---	---	---									**21 B**			**8.1 B**			**24 A**
Unknown Organic Acid		---	---	---									**7.4 J**			**34 J**			**1.8 J**
Unknown Organic Acid		---	---	---															
Unknown Organic Acid		---	---	---															

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	NAT-1 4/28/2011			NAT-2 4/28/2011			NAT-3 4/28/2011			NAT-3 DUP 4/28/2011			NAT-4 5/2/2011			NAT-4 (Filtered) 5/2/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																						
N-Nitrosodimethylamine	62-75-9	C	0.00042	---				0.96	0.24	0.96 U	0.96	0.24	0.96 U	0.95	0.24	0.95 U						
N-Nitrosodi-n-butylamine	924-16-3	C	0.0024	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
N-Nitrosodi-n-propylamine	621-64-7	C	0.0096	---				0.96	0.13	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U						
N-Nitrosodiphenylamine	86-30-6	C	14	---				0.96	0.36	0.96 U	0.96	0.36	0.96 U	0.95	0.35	0.95 U						
N-Nitrosomethylethylamine	10595-95-6	C	0.0031	---				1.9	0.096	1.9 U	1.9	0.096	1.9 U	1.9	0.095	1.9 U						
N-Nitrosomorpholine	59-89-2	C	0.01	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
N-Nitrosopiperidine	100-75-4	C	0.0072	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
N-Nitrosopyrrolidine	930-55-2	C	0.032	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
o,o',o''-Triethylphosphorothioate	126-68-1	---	---	---				0.96	0.13	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U						
o-Toluidine	95-53-4	---	---	---				0.96	0.13	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U						
p-Dimethylamino azobenzene	60-11-7	C	0.015	---				4.8	0.14	4.8 U	4.8	0.14	4.8 U	4.7	0.14	4.7 U						
Pentachlorobenzene	608-93-5	N	2.9	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Pentachloronitrobenzene	82-68-8	C	0.26	---				0.96	0.48	0.96 U	0.96	0.48	0.96 U	0.95	0.47	0.95 U						
Pentachlorophenol	87-86-5	C	0.17	1				4.8	0.39	4.8 U	4.8	0.38	4.8 U	4.7	0.38	4.7 U						
Phenacetin	62-44-2	C	31	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Phenanthrene	85-01-8	---	---	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Phenol	108-95-2	N	1,100	---				0.96	0.13	0.96 U	0.96	0.12	0.96 U	0.95	0.12	0.95 U						
Phenyl ether	101-84-8	---	---	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Phorate	298-02-2	N	0.73	---				0.96	0.19	0.96 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U						
p-Phenylene diamine	106-50-3	N	690	---				190	15	190 U	190	15	190 U	190	15	190 U						
Pronamide	23950-58-5	N	270	---				0.96	0.12	0.96 U	0.96	0.12	0.96 U	0.95	0.11	0.95 U						
Pyrene	129-00-0	N	110	---				0.19	0.096	0.19 U	0.19	0.096	0.19 U	0.19	0.095	0.19 U						
Pyridine	110-86-1	N	3.7	---				4.8	0.7	4.8 U	4.8	0.7	4.8 U	4.7	0.69	4.7 U						
Safrole, Total	94-59-7	N	0.098	---				0.96	0.096	0.96 U	0.96	0.096	0.96 U	0.95	0.095	0.95 U						
Sulfotepp	3689-24-5	N	1.8	---				0.96	0.14	0.96 U	0.96	0.13	0.96 U	0.95	0.13	0.95 U						
Thionazin	297-97-2	---	---	---				0.96	0.19	0.96 U	0.96	0.19	0.96 U	0.95	0.19	0.95 U						
Semivolatile Organic Compounds - TICs (ug/L)																						
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---																		
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---																		
Diethyltoluamide[3]	134-62-3	---	3700																			
Hexadecane[3]	544-76-3	---	88	---																		
Nonadecane[3]	629-92-5	---	88	---																		
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---																		
Octadecanoic acid, butyl ester	123-95-5	---	---	---																		
Oleic Acid	112-80-1	---	---	---																		
Phosphine oxide, triphenyl-	791-28-6	---	---	---																		
Sulfur	7704-34-9	---	---	---																		
Sulfur, mol. (S8)	10544-50-0	---	---	---																		
Tetracosane	646-31-1	---	---	---																		
Unknown		---	---	---						**39 J**			**21 J**			**20 B**						
Unknown		---	---	---						**24 J**			**70 J**			**26 J**						
Unknown		---	---	---						**6.7 J**			**24 J**			**84 J**						
Unknown		---	---	---						**9.3 J**			**28 J**			**28 J**						
Unknown		---	---	---						**14 J**			**22 J**			**34 J**						
Unknown		---	---	---						**7.9 J**			**26 J**			**25 J**						
Unknown		---	---	---						**25 J**			**45 J**			**28 J**						
Unknown		---	---	---						**18 J**			**43 J**			**31 J**						
Unknown		---	---	---									**160 J**			**36 J**						
Unknown		---	---	---												**110 J**						
Unknown Aldol Condensate		---	---	---																		
Unknown Organic Acid		---	---	---						**190 J**			**20 J**									
Unknown Organic Acid		---	---	---						**19 J**												
Unknown Organic Acid		---	---	---																		

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	RAB-MW2 4/28/2011			RAB-MW3 4/28/2011			RAB-MW4 4/28/2011			SDB-MW-1 4/26/2011			SDB-MW-2 4/26/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																			
N-Nitrosodimethylamine	62-75-9	C	0.00042	---															
N-Nitrosodi-n-butylamine	924-16-3	C	0.0024	---															
N-Nitrosodi-n-propylamine	621-64-7	C	0.0096	---															
N-Nitrosodiphenylamine	86-30-6	C	14	---															
N-Nitrosomethylethylamine	10595-95-6	C	0.0031	---															
N-Nitrosomorpholine	59-89-2	C	0.01	---															
N-Nitrosopiperidine	100-75-4	C	0.0072	---															
N-Nitrosopyrrolidine	930-55-2	C	0.032	---															
o,o',o"-Triethylphosphorothioate	126-68-1	---	---	---															
o-Toluidine	95-53-4	---	---	---															
p-Dimethylamino azobenzene	60-11-7	C	0.015	---															
Pentachlorobenzene	608-93-5	N	2.9	---															
Pentachloronitrobenzene	82-68-8	C	0.26	---															
Pentachlorophenol	87-86-5	C	0.17	1															
Phenacetin	62-44-2	C	31	---															
Phenanthrene	85-01-8	---	---	---															
Phenol	108-95-2	N	1,100	---															
Phenyl ether	101-84-8	---	---	---															
Phorate	298-02-2	N	0.73	---															
p-Phenylene diamine	106-50-3	N	690	---															
Pronamide	23950-58-5	N	270	---															
Pyrene	129-00-0	N	110	---															
Pyridine	110-86-1	N	3.7	---															
Safrole, Total	94-59-7	N	0.098	---															
Sulfotepp	3689-24-5	N	1.8	---															
Thionazin	297-97-2	---	---	---															
Semivolatile Organic Compounds - TICs (ug/L)																			
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---															
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---															
Diethyltoluamide[3]	134-62-3	---	3700																
Hexadecane[3]	544-76-3	---	88	---															
Nonadecane[3]	629-92-5	---	88	---															
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---															
Octadecanoic acid, butyl ester	123-95-5	---	---	---															
Oleic Acid	112-80-1	---	---	---															
Phosphine oxide, triphenyl-	791-28-6	---	---	---															
Sulfur	7704-34-9	---	---	---															
Sulfur, mol. (S8)	10544-50-0	---	---	---															
Tetracosane	646-31-1	---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown		---	---	---															
Unknown Aldol Condensate		---	---	---															
Unknown Organic Acid		---	---	---															
Unknown Organic Acid		---	---	---															
Unknown Organic Acid		---	---	---															

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	SDB-MW-3 4/26/2011			WWL-1 4/27/2011			WWL-2 4/27/2011			WWL-3L 4/27/2011			WWL-3U 4/27/2011			VFSP-MW-1 4/29/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Semivolatile Organic Compounds - continued (ug/L)																						
N-Nitrosodimethylamine	62-75-9	C	0.00042	---										0.96	0.24	0.96 U	0.96	0.24	0.96 U			
N-Nitrosodi-n-butylamine	924-16-3	C	0.0024	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
N-Nitrosodi-n-propylamine	621-64-7	C	0.0096	---										0.96	0.12	0.96 U	0.96	0.13	0.96 U			
N-Nitrosodiphenylamine	86-30-6	C	14	---										0.96	0.35	0.96 U	0.96	0.36	0.96 U			
N-Nitrosomethylethylamine	10595-95-6	C	0.0031	---										1.9	0.096	1.9 U	1.9	0.096	1.9 U			
N-Nitrosomorpholine	59-89-2	C	0.01	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
N-Nitrosopiperidine	100-75-4	C	0.0072	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
N-Nitrosopyrrolidine	930-55-2	C	0.032	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
o,o',o"-Triethylphosphorothioate	126-68-1	---	---	---										0.96	0.12	0.96 U	0.96	0.13	0.96 U			
o-Toluidine	95-53-4	---	---	---										0.96	0.12	0.96 U	0.96	0.13	0.96 U			
p-Dimethylamino azobenzene	60-11-7	C	0.015	---										4.8	0.14	4.8 U	4.8	0.14	4.8 U			
Pentachlorobenzene	608-93-5	N	2.9	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Pentachloronitrobenzene	82-68-8	C	0.26	---										0.96	0.48	0.96 U	0.96	0.48	0.96 U			
Pentachlorophenol	87-86-5	C	0.17	1										4.8	0.38	4.8 U	4.8	0.39	4.8 U			
Phenacetin	62-44-2	C	31	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Phenanthrene	85-01-8	---	---	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Phenol	108-95-2	N	1,100	---										0.96	0.12	0.96 U	0.96	0.13	0.96 U			
Phenyl ether	101-84-8	---	---	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Phorate	298-02-2	N	0.73	---										0.96	0.19	0.96 U	0.96	0.19	0.96 U			
p-Phenylene diamine	106-50-3	N	690	---										190	15	190 U	190	15	190 U			
Pronamide	23950-58-5	N	270	---										0.96	0.11	0.96 U	0.96	0.12	0.96 U			
Pyrene	129-00-0	N	110	---										0.19	0.096	0.19 U	0.19	0.096	0.19 U			
Pyridine	110-86-1	N	3.7	---										4.8	0.7	4.8 U	4.8	0.7	4.8 U			
Safrole, Total	94-59-7	N	0.098	---										0.96	0.096	0.96 U	0.96	0.096	0.96 U			
Sulfotepp	3689-24-5	N	1.8	---										0.96	0.13	0.96 U	0.96	0.13	0.96 U			
Thionazin	297-97-2	---	---	---										0.96	0.19	0.96 U	0.96	0.19	0.96 U			
Semivolatile Organic Compounds - TICs (ug/L)																						
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---																		
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---												**14 J N**			**12 J N**			
Diethyltoluamide[3]	134-62-3	---	3700																			
Hexadecane[3]	544-76-3	---	88	---																		
Nonadecane[3]	629-92-5	---	88	---																		
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---																		
Octadecanoic acid, butyl ester	123-95-5	---	---	---																		
Oleic Acid	112-80-1	---	---	---																		
Phosphine oxide, triphenyl-	791-28-6	---	---	---																		
Sulfur	7704-34-9	---	---	---																		
Sulfur, mol. (S8)	10544-50-0	---	---	---																		
Tetracosane	646-31-1	---	---	---																		
Unknown		---	---	---												**9.6 J**			**0.67 J**			
Unknown		---	---	---												**20 B**			**1.1 J**			
Unknown		---	---	---												**6.6 J**			**6.8 B**			
Unknown		---	---	---												**15 J**			**1.2 J**			
Unknown		---	---	---												**270 J**			**23 J**			
Unknown		---	---	---												**72 J**			**11 J**			
Unknown		---	---	---												**40 J**			**6.4 J**			
Unknown		---	---	---												**18 J**			**2 J**			
Unknown		---	---	---																		
Unknown		---	---	---																		
Unknown Aldol Condensate		---	---	---												**31 B**			**26 B**			
Unknown Organic Acid		---	---	---																		
Unknown Organic Acid		---	---	---																		
Unknown Organic Acid		---	---	---																		

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	LF-1 4/27/2011			LF-2 4/27/2011			LF-3 4/27/2011			LF-4 4/27/2011			LF-5 4/27/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Alcohols and Glycols (ug/L)																			
Allyl alcohol	107-18-6	N	18	---	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U
Ethanol[3]	64-17-5	---	6,200	---	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U
Isopropanol	67-63-0	---	---	---	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U
Methanol	67-56-1	N	1,800	---	1000	830	1000 U	1000	830	**2600**	1000	830	**1700**	1000	830	1000 U	1000	830	1000 U
Metals (ug/L)																			
Aluminum	7429-90-5	N	3,700	---	100	50	**590**	100	50	**150**	100	50	**840**	100	50	**130**	100	50	**83 J**
Antimony	7440-36-0	N	1.5	6	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U
Arsenic	7440-38-2	C	0.045	10	2.5	1.3	2.5 U	2.5	1.3	2.5 U	2.5	1.3	2.5 U	2.5	1.3	2.5 U	2.5	1.3	2.5 U
Barium	7440-39-3	N	730	2,000	5	1.4	**120**	5	1.4	**91**	5	1.4	**190**	5	1.4	**76**	5	1.4	**140**
Beryllium	7440-41-7	N	7.3	4	0.5	0.15	**0.26 J**	0.5	0.15	**0.17 J**	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	0.5 U
Cadmium	7440-43-9	N	1.8	5	0.5	0.13	**0.91**	0.5	0.13	**6.4**	0.5	0.13	**0.55**	0.5	0.13	0.5 U	0.5	0.13	0.5 U
Calcium	7440-70-2	---	---	---	500	170	**140000**	500	170	**100000**	500	170	**92000**	500	170	**46000**	500	170	**150000**
Chromium	7440-47-3	---	---	100	5	2.5	**2.6 J**	5	2.5	5 U	5	2.5	**3 J**	5	2.5	5 U	5	2.5	5 U
Cobalt	7440-48-4	N	1.1	---	0.5	0.12	**0.37 J**	0.5	0.12	**0.55**	0.5	0.12	**12**	0.5	0.12	**0.16 J**	0.5	0.12	**0.36 J**
Copper	7440-50-8	N	150	1,300	5	1.1	**1.6 J**	5	1.1	**1.2 J**	5	1.1	**2.7 J**	5	1.1	5 U	5	1.1	**1.1 J**
Iron	7439-89-6	N	2,600	---	100	44	**8200**	100	44	**6000**	100	44	**4400**	100	44	**2300**	100	44	**4200**
Lead	7439-92-1	---	---	15	1.5	0.5	1.5 U	1.5	0.5	1.5 U	1.5	0.5	1.5 U	1.5	0.5	1.5 U	1.5	0.5	1.5 U
Magnesium	7439-95-4	---	---	---	250	100	**14000**	250	100	**8900**	250	100	**28000**	250	100	**2800**	250	100	**11000**
Manganese	7439-96-5	N	88	---	5	2	**1700**	5	2	**970**	5	2	**6100**	5	2	**290**	5	2	**980**
Mercury	7439-97-6	N	0.063	2	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U
Nickel	7440-02-0	N	73	---	5	2	**2.4 J**	5	2	**4 J**	5	2	**16**	5	2	5 U	5	2	**2.5 J**
Potassium	7440-09-7	---	---	---	1000	330	**8200**	1000	330	**7300**	1000	330	**6800**	1000	330	**4000**	1000	330	**6300**
Selenium	7782-49-2	N	18	50	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	**1.4 J**	2.5	1.1	2.5 U	2.5	1.1	2.5 U
Silver	7440-22-4	N	18	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
Sodium	7440-23-5	---	---	---	500	170	**88000**	500	170	**54000**	500	170	**280000**	500	170	**12000**	500	170	**49000**
Thallium	7440-28-0	N	0.037	2	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vanadium	7440-62-2	---	18	---	10	3.2	10 U	10	3.2	10 U	10	3.2	**3.9 J**	10	3.2	10 U	10	3.2	10 U
Zinc	7440-66-6	N	1,100	---	20	8.4	**14 J**	20	8.4	**19 J**	20	8.4	**62**	20	8.4	**31**	20	8.4	20 U
Chloride	16887-00-6	---	---	---	2000	360	**120000**	2000	360	**94000**	2000	360	**180000**	2000	360	**8100**	2000	360	**130000**
Nitrogen, Kjeldahl	---	---	---	---	200	150	**500**	200	150	**340**	200	150	**1800**	200	150	**210**	200	150	**340**
Nitrate as N	14797-55-8	N	5,800	10,000	50	10	**59**	50	10	**100**	50	10	**96**	50	10	50 U	50	10	50 U
Nitrite as N	14797-65-0	N	370	1,000	50	10	50 U	50	10	50 U	50	10	50 U	50	10	50 U	50	10	50 U
Sulfate	14808-79-8	---	---	---	50000	25000	**330000**	50000	25000	**170000**	100000	50000	**350000**	5000	2500	**18000**	50000	25000	**180000**
Total Organic Carbon	7440-44-0	---	---	---	1000	500	**1400**	1000	500	**1200**	1000	500	**3600**	1000	500	**600 J**	1000	500	**1300**

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N	[2]Tapwater	MCL	MW-1 5/2/2011			MW-2 4/29/2011			MW-3 4/26/2011			MW-4 4/29/2011			MW-4U 4/29/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Alcohols and Glycols (ug/L)																			
Allyl alcohol	107-18-6	N	18	---	1000	220	1000 UL	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U
Ethanol[3]	64-17-5	---	6,200	---	1000	330	**1700 L**	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U
Isopropanol	67-63-0	---	---	---	1000	300	1000 UL	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U
Methanol	67-56-1	N	1,800	---	1000	830	1000 UL	2000	1700	**120000**	1000	830	1000 U	1000	830	**5100**	1000	830	1000 U
Metals (ug/L)																			
Aluminum	7429-90-5	N	3,700	---	100	50	**60 J**	100	50	**840**	100	50	**250**	100	50	**120**	100	50	**800**
Antimony	7440-36-0	N	1.5	6	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U
Arsenic	7440-38-2	C	0.045	10	2.5	1.3	2.5 U	2.5	1.3	**4**	2.5	1.3	**2.4 J**	2.5	1.3	**3.8**	2.5	1.3	**4.7**
Barium	7440-39-3	N	730	2,000	5	1.4	**65**	5	1.4	**180**	5	1.4	**460**	5	1.4	**760**	5	1.4	**810**
Beryllium	7440-41-7	N	7.3	4	0.5	0.15	**0.16 J**	0.5	0.15	**0.63**	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	**0.56**
Cadmium	7440-43-9	N	1.8	5	0.5	0.13	0.5 U	0.5	0.13	**0.16 J**	0.5	0.13	**0.23 J**	0.5	0.13	0.5 U	0.5	0.13	0.5 U
Calcium	7440-70-2	---	---	---	500	170	**180000**	500	170	**260000**	500	170	**72000**	500	170	**110000**	500	170	**100000**
Chromium	7440-47-3	---	---	100	5	2.5	**14**	5	2.5	**3.4 J**	5	2.5	**3.4 J**	5	2.5	**4.1 J**	5	2.5	**11**
Cobalt	7440-48-4	N	1.1	---	0.5	0.12	**1.1**	0.5	0.12	**33**	0.5	0.12	**1**	0.5	0.12	**9.5**	0.5	0.12	**31**
Copper	7440-50-8	N	150	1,300	5	1.1	**10**	5	1.1	**12**	5	1.1	**1.5 J**	5	1.1	**3.7 J**	5	1.1	**6.1**
Iron	7439-89-6	N	2,600	---	100	44	**8600**	100	44	**150000**	100	44	**19000**	100	44	**61000**	100	44	**96000**
Lead	7439-92-1	---	---	15	1.5	0.5	1.5 U	1.5	0.5	**0.6 J**	1.5	0.5	**0.54 J**	1.5	0.5	1.5 U	1.5	0.5	**0.86 J**
Magnesium	7439-95-4	---	---	---	250	100	**50000**	250	100	**88000**	250	100	**9900**	250	100	**36000**	250	100	**43000**
Manganese	7439-96-5	N	88	---	5	2	**3000**	10	4	**9600**	5	2	**830**	5	2	**2300**	5	2	**1900**
Mercury	7439-97-6	N	0.063	2	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	**0.58 J**
Nickel	7440-02-0	N	73	---	5	2	**9.5**	5	2	**7.5**	5	2	**3.7 J**	5	2	**4.3 B**	5	2	**12**
Potassium	7440-09-7	---	---	---	1000	330	**4400**	1000	330	**5000**	1000	330	**9400**	1000	330	**6300**	1000	330	**10000**
Selenium	7782-49-2	N	18	50	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U
Silver	7440-22-4	N	18	---	1	0.18	**0.36 J**	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	**0.48 J**
Sodium	7440-23-5	---	---	---	500	170	**260000**	500	170	**380000**	500	170	**200000**	1000	340	**470000**	1000	340	**510000**
Thallium	7440-28-0	N	0.037	2	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vanadium	7440-62-2	---	18	---	10	3.2	10 U	10	3.2	**3.8 J**	10	3.2	10 U	10	3.2	**4.3 J**	10	3.2	**6.2 J**
Zinc	7440-66-6	N	1,100	---	20	8.4	**31**	20	8.4	**31**	20	8.4	**23 B**	20	8.4	**9.4 J**	20	8.4	**23**
Chloride	16887-00-6	---	---	---	5000	900	**220000**	20000	3600	**1000000**	3000	540	**110000**	10000	1800	**540000**	10000	1800	**650000**
Nitrogen, Kjeldahl	---	---	---	---	200	150	**280**	200	150	**990**	400	300	**4900**	400	300	**7500**	1000	750	**19000**
Nitrate as N	14797-55-8	N	5,800	10,000	50	10	**19 J**	50	10	**150**	50	10	**310 L**	50	10	50 U	50	10	50 U
Nitrite as N	14797-65-0	N	370	1,000	50	10	50 U	50	10	50 U	50	10	50 UL	50	10	**12 J**	50	10	**22 J**
Sulfate	14808-79-8	---	---	---	250000	120000	**710000**	100000	50000	**420000**	10000	5000	**37000**	50000	25000	50000 U	5000	2500	5000 U
Total Organic Carbon	7440-44-0	---	---	---	1000	500	**3700**	1000	500	**4800**	1000	500	**9000**	1000	500	**32000**	1000	500	**36000**

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-5 4/29/2011			MW-5 DUP 4/29/2011			MW-5U 4/29/2011			MW-6 4/26/2011			MW-7L 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Alcohols and Glycols (ug/L)																			
Allyl alcohol	107-18-6	N	18	---	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U
Ethanol[3]	64-17-5	---	6,200	---	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	**1300**	1000	330	1000 U
Isopropanol	67-63-0	---	---	---	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U
Methanol	67-56-1	N	1,800	---	1000	830	1000 U	1000	830	1000 U	20000	17000	**160000**	1000	830	1000 U	1000	830	**2200**
Metals (ug/L)																			
Aluminum	7429-90-5	N	3,700	---	100	50	**670**	100	50	**610**	100	50	**88 J**	100	50	**820**	100	50	**3400**
Antimony	7440-36-0	N	1.5	6	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U
Arsenic	7440-38-2	C	0.045	10	2.5	1.3	**1.6 J**	2.5	1.3	**1.7 J**	2.5	1.3	**5.7**	2.5	1.3	**2.1 J**	2.5	1.3	**1.5 J**
Barium	7440-39-3	N	730	2,000	5	1.4	**790**	5	1.4	**780**	5	1.4	**140**	5	1.4	**480**	5	1.4	**160**
Beryllium	7440-41-7	N	7.3	4	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	**0.34 J**	0.5	0.15	**0.73**
Cadmium	7440-43-9	N	1.8	5	0.5	0.13	0.5 U	0.5	0.13	0.5 U	0.5	0.13	0.5 U	0.5	0.13	**0.44 J**	0.5	0.13	**0.16 J**
Calcium	7440-70-2	---	---	---	500	170	**190000**	500	170	**180000**	500	170	**120000**	500	170	**230000**	500	170	**94000**
Chromium	7440-47-3	---	---	100	5	2.5	5 U	5	2.5	5 U	5	2.5	**4.8 J**	5	2.5	**4.8 J**	5	2.5	**13**
Cobalt	7440-48-4	N	1.1	---	0.5	0.12	**1.6**	0.5	0.12	**1.5**	0.5	0.12	**9.6**	0.5	0.12	**32**	0.5	0.12	**6.1 J**
Copper	7440-50-8	N	150	1,300	5	1.1	**1.7 J**	5	1.1	**1.9 J**	5	1.1	**2.7 J**	5	1.1	**5.7**	5	1.1	**5.6**
Iron	7439-89-6	N	2,600	---	100	44	**53000**	100	44	**51000**	100	44	**13000**	100	44	**56000**	100	44	**7900**
Lead	7439-92-1	---	---	15	1.5	0.5	1.5 U	1.5	0.5	1.5 U	1.5	0.5	1.5 U	1.5	0.5	**1.7**	1.5	0.5	**2.5**
Magnesium	7439-95-4	---	---	---	250	100	**41000**	250	100	**39000**	250	100	**31000**	250	100	**42000**	250	100	**7800**
Manganese	7439-96-5	N	88	---	5	2	**3000**	5	2	**2900**	5	2	**2100**	5	2	**5900**	5	2	**810**
Mercury	7439-97-6	N	0.063	2	0.8	0.4	0.8 U	0.8	0.4	0.8 U	8	4	8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U
Nickel	7440-02-0	N	73	---	5	2	**2.7 B**	5	2	**2.3 B**	5	2	**8.9 B**	5	2	**8.3**	5	2	**8.7**
Potassium	7440-09-7	---	---	---	1000	330	**6700**	1000	330	**6800**	1000	330	**6600**	1000	330	**4600**	1000	330	**5600**
Selenium	7782-49-2	N	18	50	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	**1.3 J**	2.5	1.1	2.5 U
Silver	7440-22-4	N	18	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	**0.49 J**
Sodium	7440-23-5	---	---	---	2000	680	**760000**	1000	340	**710000**	5000	1700	**1900000**	1000	340	**540000**	500	170	**20000**
Thallium	7440-28-0	N	0.037	2	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vanadium	7440-62-2	---	18	---	10	3.2	**5 J**	10	3.2	**4.9 J**	10	3.2	**240**	10	3.2	**5.4 J**	10	3.2	**11**
Zinc	7440-66-6	N	1,100	---	20	8.4	20 U	20	8.4	**12 J**	20	8.4	**10 J**	20	8.4	**22 B**	20	8.4	**14 J**
Chloride	16887-00-6	---	---	---	20000	3600	**1200000**	20000	3600	**1100000**	50000	9000	**2000000**	10000	1800	**610000**	1000	180	**55000**
Nitrogen, Kjeldahl	---	---	---	---	200	150	**3000**	200	150	**3300**	200	150	**2400**	200	150	**4800**	200	150	**250**
Nitrate as N	14797-55-8	N	5,800	10,000	50	10	**1000**	50	10	**350**	50	10	**28 B**	50	10	**30 L**	50	10	50 U
Nitrite as N	14797-65-0	N	370	1,000	50	10	50 U	50	10	50 U	50	10	50 U	50	10	50 UL	50	10	50 U
Sulfate	14808-79-8	---	---	---	25000	12000	**150000**	25000	12000	**130000**	100000	50000	**390000**	25000	12000	**140000**	10000	5000	**32000**
Total Organic Carbon	7440-44-0	---	---	---	1000	500	**14000**	1000	500	**15000**	1000	500	**26000**	1000	500	**22000**	1000	500	**690 J**

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	[1]C or N	[2]Tapwater	MCL	MW-7U 4/28/2011			MW-8D 4/26/2011			MW-8U 4/26/2011			MW-9 4/29/2011			MW-10 4/28/2011		
					RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Alcohols and Glycols (ug/L)																			
Allyl alcohol	107-18-6	N	18	---	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U
Ethanol[3]	64-17-5	---	6,200	---	1000	330	1000 U	1000	330	1000 U	1000	330	**1400**	1000	330	1000 U	1000	330	1000 U
Isopropanol	67-63-0	---	---	---	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U
Methanol	67-56-1	N	1,800	---	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U
Metals (ug/L)																			
Aluminum	7429-90-5	N	3,700	---	100	50	**460**	100	50	**700**	100	50	**4700**	100	50	**1500**	100	50	**680**
Antimony	7440-36-0	N	1.5	6	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U
Arsenic	7440-38-2	C	0.045	10	2.5	1.3	**1.4 J**	2.5	1.3	2.5 U	2.5	1.3	**15**	2.5	1.3	**4**	2.5	1.3	2.5 U
Barium	7440-39-3	N	730	2,000	5	1.4	**56**	5	1.4	**77**	5	1.4	**340**	5	1.4	**92**	5	1.4	**15**
Beryllium	7440-41-7	N	7.3	4	0.5	0.15	**3**	0.5	0.15	**0.18 J**	0.5	0.15	**0.23 J**	0.5	0.15	0.5 U	0.5	0.15	**0.25 J**
Cadmium	7440-43-9	N	1.8	5	0.5	0.13	**11**	0.5	0.13	**2.9**	0.5	0.13	**0.28 J**	0.5	0.13	0.5 U	0.5	0.13	**4.5**
Calcium	7440-70-2	---	---	---	1000	340	**560000**	500	170	**38000**	500	170	**190000**	500	170	**230000**	500	170	**130000**
Chromium	7440-47-3	---	---	100	5	2.5	5 U	5	2.5	**3.3 J**	5	2.5	**29**	5	2.5	**8.9**	5	2.5	5 U
Cobalt	7440-48-4	N	1.1	---	0.5	0.12	**440 J**	0.5	0.12	**0.29 J**	0.5	0.12	**20**	0.5	0.12	**2.6**	0.5	0.12	**91 J**
Copper	7440-50-8	N	150	1,300	5	1.1	**88**	5	1.1	**5.3**	5	1.1	**6.3**	5	1.1	**3.1 J**	5	1.1	**3 J**
Iron	7439-89-6	N	2,600	---	100	44	**43000**	100	44	**1100**	100	44	**36000**	100	44	**110000**	100	44	**550**
Lead	7439-92-1	---	---	15	1.5	0.5	**1.7**	1.5	0.5	**0.9 J**	1.5	0.5	**2.2**	1.5	0.5	**1.1 J**	1.5	0.5	**0.54 J**
Magnesium	7439-95-4	---	---	---	250	100	**320000**	250	100	**3300**	250	100	**45000**	250	100	**62000**	250	100	**38000**
Manganese	7439-96-5	N	88	---	50	20	**48000**	5	2	**250**	5	2	**2400**	5	2	**2800**	5	2	**4700**
Mercury	7439-97-6	N	0.063	2	0.8	0.4	**1.6**	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U
Nickel	7440-02-0	N	73	---	5	2	**130**	5	2	**3.2 J**	5	2	**19**	5	2	**6.4 B**	5	2	**73**
Potassium	7440-09-7	---	---	---	1000	330	**3800**	1000	330	**5300**	1000	330	**24000**	1000	330	**7600**	1000	330	**4900**
Selenium	7782-49-2	N	18	50	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	**1.5 J**	2.5	1.1	2.5 U	2.5	1.1	2.5 U
Silver	7440-22-4	N	18	---	1	0.18	**2.1**	1	0.18	1 U	1	0.18	1 U	1	0.18	**0.42 J**	1	0.18	1 U
Sodium	7440-23-5	---	---	---	500	170	**280000**	500	170	**14000**	1000	340	**530000**	500	170	**340000**	500	170	**210000**
Thallium	7440-28-0	N	0.037	2	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vanadium	7440-62-2	---	18	---	10	3.2	10 U	10	3.2	10 U	10	3.2	**14**	10	3.2	**5.7 J**	10	3.2	**3.3 J**
Zinc	7440-66-6	N	1,100	---	20	8.4	**110**	20	8.4	**23 B**	20	8.4	**27 B**	20	8.4	**14 J**	20	8.4	**37**
Chloride	16887-00-6	---	---	---	50000	9000	**2100000**	1000	180	**3600**	5000	900	**480000**	10000	1800	**570000**	5000	900	**250000**
Nitrogen, Kjeldahl	---	---	---	---	200	150	**750**	200	150	**220**	1000	750	**11000**	200	150	**1600**	200	150	**280**
Nitrate as N	14797-55-8	N	5,800	10,000	50	10	**18 J**	50	10	**97 L**	50	10	**18 L**	50	10	50 U	250	50	**5700**
Nitrite as N	14797-65-0	N	370	1,000	50	10	50 U	50	10	50 UL	50	10	50 UL	50	10	**12 J**	250	50	250 U
Sulfate	14808-79-8	---	---	---	100000	50000	**520000**	5000	2500	**4800 J**	50000	25000	**340000**	250000	120000	**650000**	100000	50000	**530000**
Total Organic Carbon	7440-44-0	---	---	---	1000	500	**2400**	1000	500	**610 J**	1000	500	**11000**	1000	500	**6900**	1000	500	**1400**

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N	[2]Tapwater	MCL	NAT-1 4/28/2011			NAT-2 4/28/2011			NAT-3 4/28/2011			NAT-3 DUP 4/28/2011			NAT-4 5/2/2011			NAT-4 (Filtered) 5/2/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Alcohols and Glycols (ug/L)																						
Allyl alcohol	107-18-6	N	18	---	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 UL			
Ethanol[3]	64-17-5	---	6,200	---	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 UL	1000	330	1000 UL			
Isopropanol	67-63-0	---	---	---	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 UL	1000	300	1000 UL			
Methanol	67-56-1	N	1,800	---	1000	830	1000 U	50000	42000	**4400000 L**	1000	830	1000 U	1000	830	1000 UL	1000	830	1000 UL			
Metals (ug/L)																						
Aluminum	7429-90-5	N	3,700	---	100	50	**680**	100	50	**1200**	100	50	**340**	100	50	**100**	100	50	**44000**	50	23	**170**
Antimony	7440-36-0	N	1.5	6	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U	5	2.3	5 U
Arsenic	7440-38-2	C	0.045	10	2.5	1.3	2.5 U	2.5	1.3	**3.9**	2.5	1.3	**6.1**	2.5	1.3	**5.7**	2.5	1.3	**15**	2.5	1.3	**2.6**
Barium	7440-39-3	N	730	2,000	5	1.4	**55**	5	1.4	**53**	5	1.4	**94**	5	1.4	**81**	5	1.4	**230**	5	1.3	**39**
Beryllium	7440-41-7	N	7.3	4	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	**2.2**	0.5	0.25	0.5 U
Cadmium	7440-43-9	N	1.8	5	0.5	0.13	**0.63**	0.5	0.13	**0.27 J**	0.5	0.13	**0.36 J**	0.5	0.13	0.5 U	0.5	0.13	**0.2 J**	0.5	0.095	0.5 U
Calcium	7440-70-2	---	---	---	500	170	**91000**	500	170	**20000**	500	170	**40000**	500	170	**38000**	500	170	**7900**	250	130	**24000**
Chromium	7440-47-3	---	---	100	5	2.5	5 U	5	2.5	**3.5 J**	5	2.5	**2.5 J**	5	2.5	5 U	5	2.5	**78**	5	2.5	5 U
Cobalt	7440-48-4	N	1.1	---	0.5	0.12	**41 J**	0.5	0.12	**3.8 J**	0.5	0.12	**16 J**	0.5	0.12	**14 J**	0.5	0.12	**14**	0.5	0.15	**0.73**
Copper	7440-50-8	N	150	1,300	5	1.1	**3.8 J**	5	1.1	**1.6 J**	5	1.1	**1.2 J**	5	1.1	5 U	5	1.1	**60**	5	1.1	5 U
Iron	7439-89-6	N	2,600	---	100	44	**680**	100	44	**6800**	100	44	**3200**	100	44	**2800**	100	44	**54000**	100	33	**4200**
Lead	7439-92-1	---	---	15	1.5	0.5	**1.3 J**	1.5	0.5	**0.74 J**	1.5	0.5	1.5 U	1.5	0.5	1.5 U	1.5	0.5	**34**	1.5	0.2	**0.26 J**
Magnesium	7439-95-4	---	---	---	250	100	**31000**	250	100	**11000**	250	100	**18000**	250	100	**17000**	250	100	**6000**	250	43	**8900**
Manganese	7439-96-5	N	88	---	5	2	**2300**	5	2	**160**	5	2	**1800**	5	2	**1700**	5	2	**370**	5	1	**520**
Mercury	7439-97-6	N	0.063	2	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U
Nickel	7440-02-0	N	73	---	5	2	**14**	5	2	**4.4 J**	5	2	**22**	5	2	**19**	5	2	**27**	5	2	**5.2**
Potassium	7440-09-7	---	---	---	1000	330	**3900**	1000	330	**1700**	1000	330	**1300**	1000	330	**1100**	1000	330	**2100**	500	170	**1000**
Selenium	7782-49-2	N	18	50	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	**1.2 J**	2.5	1	2.5 U
Silver	7440-22-4	N	18	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.25	1 U
Sodium	7440-23-5	---	---	---	500	170	**120000**	500	170	**440000**	5000	1700	**1200000**	5000	1700	**1100000**	500	170	**120000**	500	250	**140000**
Thallium	7440-28-0	N	0.037	2	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.5	1 U
Vanadium	7440-62-2	---	18	---	10	3.2	**3.7 J**	10	3.2	**4.6 J**	10	3.2	**5 J**	10	3.2	**4 J**	10	3.2	**130**	10	3.8	**5 J**
Zinc	7440-66-6	N	1,100	---	20	8.4	**18 J**	20	8.4	**17 J**	20	8.4	**20**	20	8.4	20 U	20	8.4	**61**	20	8.3	**14 J**
Chloride	16887-00-6	---	---	---	1000	180	**78000**	2000	360	**110000**	5000	900	**250000**	5000	900	**250000**	2000	360	**8700**			
Nitrogen, Kjeldahl	---	---	---	---	200	150	**350**	200	150	**1900**	200	150	**2900**	200	150	**2400**	400	300	**5500**			
Nitrate as N	14797-55-8	N	5,800	10,000	1000	200	**13000**	50	10	**530**	50	10	**400**	250	50	250 U	50	10	**1100**			
Nitrite as N	14797-65-0	N	370	1,000	1000	200	1000 U	50	10	50 U	50	10	50 U	250	50	**4300**	50	10	**80**			
Sulfate	14808-79-8	---	---	---	50000	25000	**340000**	25000	12000	**150000**	5000	2500	5000 U	5000	2500	5000 U	10000	5000	**51000**			
Total Organic Carbon	7440-44-0	---	---	---	1000	500	**1500**	1000	500	**16000**	1000	500	**73000**	1000	500	**73000**	1000	500	**9500**			

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N	[2]Tapwater	MCL	RAB-MW2 4/28/2011			RAB-MW3 4/28/2011			RAB-MW4 4/28/2011			SDB-MW-1 4/26/2011			SDB-MW-2 4/26/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Alcohols and Glycols (ug/L)																			
Allyl alcohol	107-18-6	N	18	---	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U
Ethanol[3]	64-17-5	---	6,200	---	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U
Isopropanol	67-63-0	---	---	---	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U
Methanol	67-56-1	N	1,800	---	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U
Metals (ug/L)																			
Aluminum	7429-90-5	N	3,700	---	100	50	**470**	100	50	**8000**	100	50	**2600**	100	50	**13000**	100	50	**130**
Antimony	7440-36-0	N	1.5	6	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U
Arsenic	7440-38-2	C	0.045	10	2.5	1.3	**5.6**	2.5	1.3	**6.6**	2.5	1.3	**1.3 J**	2.5	1.3	**7.7**	2.5	1.3	2.5 U
Barium	7440-39-3	N	730	2,000	5	1.4	**46**	5	1.4	**210**	5	1.4	**18**	5	1.4	**490**	5	1.4	**15**
Beryllium	7440-41-7	N	7.3	4	0.5	0.15	**0.22 J**	0.5	0.15	**0.54**	0.5	0.15	**0.19 J**	0.5	0.15	**0.66**	0.5	0.15	0.5 U
Cadmium	7440-43-9	N	1.8	5	0.5	0.13	**0.23 J**	0.5	0.13	0.5 U	0.5	0.13	**0.5**	0.5	0.13	0.5 U	0.5	0.13	**0.34 J**
Calcium	7440-70-2	---	---	---	500	170	**85000**	500	170	**12000**	500	170	**250000**	500	170	**82000**	1000	340	**490000**
Chromium	7440-47-3	---	---	100	5	2.5	**6.7**	5	2.5	**16**	5	2.5	**8.3**	5	2.5	**160**	5	2.5	**3.4 J**
Cobalt	7440-48-4	N	1.1	---	0.5	0.12	**120 J**	0.5	0.12	**9.5 J**	0.5	0.12	**2.5 J**	0.5	0.12	**9**	0.5	0.12	**5.8**
Copper	7440-50-8	N	150	1,300	5	1.1	**6.2**	5	1.1	**7**	5	1.1	**4.9 J**	5	1.1	**37**	5	1.1	**8.5**
Iron	7439-89-6	N	2,600	---	100	44	**96000**	100	44	**130000**	100	44	**3000**	100	44	**230000**	100	44	**810**
Lead	7439-92-1	---	---	15	1.5	0.5	**0.68 J**	1.5	0.5	**10**	1.5	0.5	**1.5**	1.5	0.5	**9.8**	1.5	0.5	1.5 U
Magnesium	7439-95-4	---	---	---	250	100	**160000**	250	100	**25000**	250	100	**220000**	250	100	**22000**	250	100	**100000**
Manganese	7439-96-5	N	88	---	10	4	**12000**	5	2	**420**	5	2	**610**	5	2	**2300**	5	2	**1800**
Mercury	7439-97-6	N	0.063	2	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U
Nickel	7440-02-0	N	73	---	5	2	**68**	5	2	**13**	5	2	**51**	5	2	**95**	5	2	**29**
Potassium	7440-09-7	---	---	---	1000	330	**2200**	1000	330	**1100**	1000	330	**5100**	1000	330	**15000**	1000	330	**1800**
Selenium	7782-49-2	N	18	50	2.5	1.1	2.5 U	2.5	1.1	**1.2 J**	2.5	1.1	2.5 U	2.5	1.1	**2.5**	2.5	1.1	2.5 U
Silver	7440-22-4	N	18	---	1	0.18	**0.19 J**	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
Sodium	7440-23-5	---	---	---	1000	340	**490000**	500	170	**58000**	500	170	**360000**	500	170	**77000**	500	170	**300000**
Thallium	7440-28-0	N	0.037	2	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vanadium	7440-62-2	---	18	---	10	3.2	**3.9 J**	10	3.2	**26**	10	3.2	**7.4 J**	10	3.2	**27**	10	3.2	10 U
Zinc	7440-66-6	N	1,100	---	20	8.4	**25**	20	8.4	**22**	20	8.4	**22**	20	8.4	**78**	20	8.4	**49 B**
Chloride	16887-00-6	---	---	---	10000	1800	**530000**	1000	180	**59000**	5000	900	**350000**	1000	180	**45000**	3000	540	**130000**
Nitrogen, Kjeldahl	---	---	---	---	200	150	**1500**	200	150	**3900**	200	150	**250**	1000	750	**14000**	200	150	**400**
Nitrate as N	14797-55-8	N	5,800	10,000	50	10	**390**	50	10	50 U	50	10	50 U	50	10	**31 L**	50	10	50 U L
Nitrite as N	14797-65-0	N	370	1,000	50	10	50 U	50	10	**11 J**	50	10	50 U	50	10	**10 L**	50	10	50 U L
Sulfate	14808-79-8	---	---	---	200000	100000	**1200000**	5000	2500	**21000**	500000	250000	**1600000**	5000	2500	5000 U	250000	120000	**1200000**
Total Organic Carbon	7440-44-0	---	---	---	1000	500	**12000**	1000	500	**28000**	1000	500	**2600**	1000	500	**51000**	1000	500	**6300**

Table 7
2011 Site-Wide Groundwater Sampling Event Full Analytical Results
Hercules - Aqualon
Hopewell, Virginia

		[1]C or N	[2]Tapwater	MCL	SDB-MW-3 4/26/2011			WWL-1 4/27/2011			WWL-2 4/27/2011			WWL-3L 4/27/2011			WWL-3U 4/27/2011			VFSP-MW-1 4/29/2011		
	CAS Number				RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual	RL	MDL	Conc/Qual
Alcohols and Glycols (ug/L)																						
Allyl alcohol	107-18-6	N	18	---	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U	1000	220	1000 U
Ethanol[3]	64-17-5	---	6,200	---	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U	1000	330	1000 U
Isopropanol	67-63-0	---	---	---	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U	1000	300	1000 U
Methanol	67-56-1	N	1,800	---	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U	1000	830	1000 U
Metals (ug/L)																						
Aluminum	7429-90-5	N	3,700	---	100	50	**1300**	100	50	**530**	100	50	**1900**	100	50	**740**	100	50	**810**	100	50	**73 J**
Antimony	7440-36-0	N	1.5	6	5	2	5 U	5	2	**2.2 J**	5	2	5 U	5	2	5 U	5	2	5 U	5	2	5 U
Arsenic	7440-38-2	C	0.045	10	2.5	1.3	2.5 U	2.5	1.3	**1.8 J**	2.5	1.3	**5**	2.5	1.3	**2 J**	2.5	1.3	**1.8 J**	2.5	1.3	2.5 U
Barium	7440-39-3	N	730	2,000	5	1.4	**22**	5	1.4	**520**	5	1.4	**2100**	5	1.4	**33**	5	1.4	**35**	5	1.4	**180**
Beryllium	7440-41-7	N	7.3	4	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	**0.16 J**	0.5	0.15	0.5 U	0.5	0.15	0.5 U	0.5	0.15	0.5 U
Cadmium	7440-43-9	N	1.8	5	0.5	0.13	**0.7**	0.5	0.13	**0.29 J**	0.5	0.13	**0.28 J**	0.5	0.13	**0.39 J**	0.5	0.13	**0.4 J**	0.5	0.13	0.5 U
Calcium	7440-70-2	---	---	---	500	170	**380000**	500	170	**210000**	2000	680	**1400000**	500	170	**280000**	500	170	**270000**	500	170	**86000**
Chromium	7440-47-3	---	---	100	5	2.5	**19**	5	2.5	**4.9 J**	5	2.5	**7.1**	5	2.5	**2.6 J**	5	2.5	**5.2**	5	2.5	5 U
Cobalt	7440-48-4	N	1.1	---	0.5	0.12	**8.4**	0.5	0.12	**2.1**	0.5	0.12	**110**	0.5	0.12	**65**	0.5	0.12	**48**	0.5	0.12	**2.2**
Copper	7440-50-8	N	150	1,300	5	1.1	**15**	5	1.1	**1.6 J**	5	1.1	**6.8**	5	1.1	**2.6 J**	5	1.1	**1.9 J**	5	1.1	**1.1 J**
Iron	7439-89-6	N	2,600	---	100	44	**1700**	100	44	**110000**	100	44	**13000**	100	44	**170000**	100	44	**72000**	100	44	**3900**
Lead	7439-92-1	---	---	15	1.5	0.5	**0.91 J**	1.5	0.5	**0.66 J**	1.5	0.5	**2.1**	1.5	0.5	**0.73 J**	1.5	0.5	**0.91 J**	1.5	0.5	1.5 U
Magnesium	7439-95-4	---	---	---	250	100	**100000**	250	100	**48000**	1000	400	**560000**	250	100	**83000**	250	100	**82000**	250	100	**8300**
Manganese	7439-96-5	N	88	---	5	2	**1500**	5	2	**3200**	20	8	**31000**	20	8	**13000**	5	2	**8800**	5	2	**760**
Mercury	7439-97-6	N	0.063	2	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U	0.8	0.4	0.8 U
Nickel	7440-02-0	N	73	---	5	2	**46**	5	2	**5.5**	5	2	**27**	5	2	**12**	5	2	**7**	5	2	**2.4 B**
Potassium	7440-09-7	---	---	---	1000	330	**2300**	1000	330	**6300**	1000	330	**1100**	1000	330	**6500**	1000	330	**7900**	1000	330	**6600**
Selenium	7782-49-2	N	18	50	2.5	1.1	**12**	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U	2.5	1.1	2.5 U
Silver	7440-22-4	N	18	---	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U	1	0.18	1 U
Sodium	7440-23-5	---	---	---	500	170	**300000**	1000	340	**460000**	2000	680	**790000**	500	170	**330000**	500	170	**170000**	500	170	**35000**
Thallium	7440-28-0	N	0.037	2	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U	1	0.25	1 U
Vanadium	7440-62-2	---	18	---	10	3.2	**4 J**	10	3.2	10 U	10	3.2	**4.4 J**	10	3.2	10 U	10	3.2	**3.5 J**	10	3.2	10 U
Zinc	7440-66-6	N	1,100	---	20	8.4	**29 B**	20	8.4	**14 J**	20	8.4	**26**	20	8.4	**22**	20	8.4	**31**	20	8.4	20 U
Chloride	16887-00-6	---	---	---	5000	900	**280000**	10000	1800	**600000**	100000	18000	**5000000**	20000	3600	**1100000**	10000	1800	**720000**	1000	180	**51000**
Nitrogen, Kjeldahl	---	---	---	---	200	150	**390**	200	150	**1400**	200	150	**1100**	200	150	**1300**	200	150	**510**	200	150	**370**
Nitrate as N	14797-55-8	N	5,800	10,000	50	10	**290 L**	50	10	50 U	50	10	50 U	50	10	**41 J**	50	10	50 U	50	10	50 U
Nitrite as N	14797-65-0	N	370	1,000	50	10	50 UL	50	10	**22 J**	50	10	50 U	50	10	50 U	50	10	50 U	50	10	50 U
Sulfate	14808-79-8	---	---	---	250000	120000	**1100000**	50000	25000	**340000**	10000	5000	**63000**	100000	50000	**440000**	50000	25000	**330000**	25000	12000	**130000**
Total Organic Carbon	7440-44-0	---	---	---	1000	500	**5600**	5000	2500	**280000**	1000	500	**67000**	1000	500	**5100**	1000	500	**3700**	1000	500	**680 J**

Notes:
ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.
[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA
[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)
[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.
A = The tentatively identified compound is a suspected aldol-condensation product
B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration
L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported
R = The result for this compound/analyte is unusable. The analyte may or may not be present.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 8
Summary of Detected Groundwater Constituents, Whitewater Lagoons
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N[1]	Tapwater[2]	MCL	WWL-1 4/27/2011 Conc/Qual	WWL-2 4/27/2011 Conc/Qual	WWL-3L 4/27/2011 Conc/Qual	WWL-3U 4/27/2011 Conc/Qual
Volatile Organic Compounds (ug/L)								
Diethyl ether	60-29-7	N	730	---	100		**8100**	**810**
t-Butanol	75-65-0	---	12	---	**330**	**73**		**30 J**
Volatile Organic Compounds - TICs (ug/L)								
Unknown	---	---	---	---	35 J			
Unknown Alkane	---	---	---	---	37 J			
Semivolatile Organic Compounds (ug/L)								
1,4-Dichlorobenzene	106-46-7	C	0.43	75			0.12 B	0.11 B
1,4-Dioxane	123-91-1	C	0.67	---			**18**	**3.2**
Semivolatile Organic Compounds - TICs (ug/L)								
(Carbethoxyethylidine)triphe	5717-37-3	---	---	---			14 J N	12 J N
Unknown		---	---	---			9.6 J	0.67 J
Unknown		---	---	---			20 B	1.1 J
Unknown		---	---	---			6.6 J	6.8 B
Unknown		---	---	---			15 J	1.2 J
Unknown		---	---	---			270 J	23 J
Unknown		---	---	---			72 J	11 J
Unknown		---	---	---			40 J	6.4 J
Unknown		---	---	---			18 J	2 J
Unknown Aldol Condensate		---	---	---			31 B	26 B
Metals (ug/L)								
Aluminum	7429-90-5	N	3,700	---	530	1900	740	810
Antimony	7440-36-0	N	1.5	6	**2.2 J**			
Arsenic	7440-38-2	C	0.045	10	**1.8 J**	**5**	**2 J**	**1.8 J**
Barium	7440-39-3	N	730	2,000	520	**2100**	33	35
Beryllium	7440-41-7	N	7.3	4		0.16 J		
Cadmium	7440-43-9	N	1.8	5	0.29 J	0.28 J	0.39 J	0.4 J
Calcium	7440-70-2	---	---	---	210000	1400000	280000	270000
Chromium	7440-47-3	---	---	100	4.9 J	7.1	2.6 J	5.2
Cobalt	7440-48-4	N	1.1	---	**2.1**	**110**	**65**	**48**
Copper	7440-50-8	N	150	1,300	1.6 J	6.8	2.6 J	1.9 J
Iron	7439-89-6	N	2,600	---	**110000**	**13000**	**170000**	**72000**
Lead	7439-92-1	---	---	15	0.66 J	2.1	0.73 J	0.91 J
Magnesium	7439-95-4	---	---	---	48000	560000	83000	82000
Manganese	7439-96-5	N	88	---	**3200**	**31000**	**13000**	**8800**
Nickel	7440-02-0	N	73	---	5.5	27	12	7
Potassium	7440-09-7	---	---	---	6300	1100	6500	7900
Sodium	7440-23-5	---	---	---	460000	790000	330000	170000
Vanadium	7440-62-2	N	18	---		4.4 J		3.5 J
Zinc	7440-66-6	N	1,100	---	14 J	26	22	31
Inorganic, Non-Metals (ug/L)								
Chloride	16887-00-6	---	---	---	600000	5000000	1100000	720000
Nitrogen, Kjeldahl	---	---	---	---	1400	1100	1300	510
Nitrate as N	14797-55-8	N	5,800	10,000			41 J	
Nitrite as N	14797-65-0	N	370	1,000	22 J			
Sulfate	14808-79-8	---	---	---	340000	63000	440000	330000
Total Organic Carbon	7440-44-0	---	---	---	280000	67000	5100	3700

Notes:
ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with EPA

[1]Carcinogen/Non-Carcinogen taken from Oakridge National Laboratory under an Interagency agreement with EPA

[2]Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

B = the compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
J = the positive result reported for this analyte is a quantitative estimate. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N = This flag indicates the presumptive evidence of a compound.

Table 9
Summary of Detected Groundwater Constituents, Old Landfill and Landfill #156
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N[1]	Tapwater[2]	MCL	LF-1 4/27/2011 Conc/Qual	LF-2 4/27/2011 Conc/Qual	LF-3 4/27/2011 Conc/Qual	LF-4 4/27/2011 Conc/Qual	LF-5 4/27/2011 Conc/Qual
Volatile Organic Compounds (ug/L)									
1,1-Dichloroethane	75-34-3	C	2.4	---	**2.4**	0.28 J			0.3 J
1,1-Dichloroethene	75-35-4	N	34	7	2.5				0.12 J
cis-1,2-Dichloroethene	156-59-2	N	7.3	70	0.16 J		0.2 J		
Diethyl ether	60-29-7	N	730	---	78	30	5.9 J		35
t-Butanol	75-65-0	---	12	---	**44**	**30**	**300**		**12**
Trichloroethylene	79-01-6	C	2	5	0.62 J				
Volatile Organic Compounds - TICs (ug/L)									
Methyl naphthalene isomer	---	---	---	---	11 J				
Semivolatile Organic Compounds (ug/L)									
1,4-Dichlorobenzene	106-46-7	C	0.43	75	0.16 B		0.12 B	0.11 B	0.28 B
1,4-Dioxane	123-91-1	C	0.67	---	**2.3**		**14**		**0.83 J**
Acetophenone	98-86-2	N	370	---					0.25 B
Bis(2-ethylhexyl) phthalate	117-81-7	C	4.8	6					1.2 J
Butyl benzyl phthalate	85-68-7	C	35	---					0.17 J
Semivolatile Organic Compounds - TICs (ug/L)									
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---	18 J			20 J N	14 J N
Hexadecane[3]	544-76-3	---	88	---				2 J N	
Nonadecane[3]	629-92-5	---	88	---					1.3 J N
Octadecanoic acid, butyl ester	123-95-5	---	---	---				2.9 J N	
Oleic Acid	112-80-1	---	---	---					7 B
Tetracosane	646-31-1	---	---	---					1.7 J N
Unknown		---	---	---	1.1 J		200 J	1.4 J	1.7 J
Unknown		---	---	---	10 J		220 J	6.3 B	9.8 J
Unknown		---	---	---	2.3 J		170 J	2.2 B	7.1 B
Unknown		---	---	---	1.8 J		18 J	1.3 J	1.9 B
Unknown		---	---	---	1.9 J		42 J	1.4 B	
Unknown		---	---	---	1.3 J		120 J	4.4 B	
Unknown		---	---	---	1.7 J		21 J		
Unknown		---	---	---			11 B		
Unknown		---	---	---			11 J		
Unknown Aldol Condensate		---	---	---	34 B		44 B	27 A	19 A
Unknown Organic Acid		---	---	---	2.2 B				4.6 B
Alcohols and Glycols (ug/L)									
Methanol	67-56-1	N	1,800	---		**2600**	1700		
Metals (ug/L)									
Aluminum	7429-90-5	N	3,700	---	590	150	840	130	83 J
Barium	7440-39-3	N	730	2,000	120	91	190	76	140
Beryllium	7440-41-7	N	7.3	4	0.26 J	0.17 J			
Cadmium	7440-43-9	N	1.8	5	0.91	**6.4**	0.55		
Calcium	7440-70-2	---	---	---	140000	100000	92000	46000	150000
Chromium	7440-47-3	---	---	100	2.6 J		3 J		
Cobalt	7440-48-4	N	1.1	---	0.37 J	0.55	**12**	0.16 J	0.36 J
Copper	7440-50-8	N	150	1,300	1.6 J	1.2 J	2.7 J		1.1 J
Iron	7439-89-6	N	2,600	---	**8200**	**6000**	**4400**	2300	**4200**
Magnesium	7439-95-4	---	---	---	14000	8900	28000	2800	11000
Manganese	7439-96-5	N	88	---	**1700**	**970**	**6100**	**290**	**980**
Nickel	7440-02-0	N	73	---	2.4 J	4 J	16		2.5 J
Potassium	7440-09-7	---	---	---	8200	7300	6800	4000	6300
Selenium	7782-49-2	N	18	50			1.4 J		
Sodium	7440-23-5	---	---	---	88000	54000	280000	12000	49000
Vanadium	7440-62-2	N	18	---			3.9 J		
Zinc	7440-66-6	N	1,100	---	14 J	19 J	62	31	
Inorganic, Non-Metals (ug/L)									
Chloride	16887-00-6	---	---	---	120000	94000	180000	8100	130000
Nitrogen, Kjeldahl	---	---	---	---	500	340	1800	210	340
Nitrate as N	14797-55-8	N	5,800	10,000	59	100	96		
Sulfate	14808-79-8	---	---	---	330000	170000	350000	18000	180000
Total Organic Carbon	7440-44-0	---	---	---	1400	1200	3600	600 J	1300

Notes:
ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with EPA
[1] Carcinogen/Non-Carcinogen taken from Oakridge National Laboratory under an Interagency agreement with EPA
[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)
[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table
A = The tentatively identified compound is a suspected aldol-condensation product.
B = the compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
J = the positive result reported for this analyte is a quantitative estimate. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N = This flag indicates the presumptive evidence of a compound.

Table 10
Summary of Detected Groundwater Constituents, Natrosol Lagoon
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Numbe	C or N[1]	Tapwater[2]	MCL	NAT-1 4/28/2011	NAT-2 4/28/2011	NAT-3 4/28/2011	NAT-3 DUP 4/28/2011	NAT-4 5/2/2011
					Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Volatile Organic Compounds (ug/L)									
Acetone	67-64-1	N	2,200	---		35	34	30	6.1 J
cis-1,2-Dichloroethene	156-59-2	N	7.3	70		1.1		0.2 J	
Diethyl ether	60-29-7	N	730	---					1.4 J
Methyl tert-butyl ether	1634-04-4	C	12	---		2.6 J			
t-Butanol	75-65-0	---	12	---		**18000**	**83000**	**94000**	**370**
Tetrachloroethene	127-18-4	C	0.11	5			**0.3 J**	**1.3**	
Trichloroethylene	79-01-6	C	2	5	**28**	**3.2**			
Volatile Organic Compounds - TICs (ug/L)									
Unknown	---	---	---	---	5 J	14 J	5.6 J		
Semivolatile Organic Compounds (ug/L)									
1,4-Dichlorobenzene	106-46-7	C	0.43	75		0.13 B	0.15 B	0.1 B	
1,4-Dioxane	123-91-1	C	0.67	---		**1.5 J**	**6.8**	**7.6**	
Semivolatile Organic Compounds - TICs (ug/L)									
Unknown		---	---	---		39 J	21 J	20 B	
Unknown		---	---	---		24 J	70 J	26 J	
Unknown		---	---	---		6.7 J	24 J	84 J	
Unknown		---	---	---		9.3 J	28 J	28 J	
Unknown		---	---	---		14 J	22 J	34 J	
Unknown		---	---	---		7.9 J	26 J	25 J	
Unknown		---	---	---		25 J	45 J	28 J	
Unknown		---	---	---		18 J	43 J	31 J	
Unknown		---	---	---			160 J	36 J	
Unknown		---	---	---				110 J	
Unknown Organic Acid		---	---	---		190 J	20 J		
Unknown Organic Acid		---	---	---		19 J			
Alcohols and Glycols (ug/L)									
Methanol	67-56-1	N	1,800	---		**4400000 L**			
Metals (ug/L)									
Aluminum	7429-90-5	N	3,700	---	680	1200	340	100	**44000**
Aluminum, Dissolved	7429-90-5	N	3,700	---	---	---	---	---	170
Arsenic	7440-38-2	C	0.045	10		**3.9**	**6.1**	**5.7**	**15**
Arsenic, Dissolved	7440-38-2	C	0.045	10	---	---	---	---	**2.6**
Barium	7440-39-3	N	730	2,000	55	53	94	81	230
Barium, Dissolved	7440-39-3	N	730	2,000	---	---	---	---	39
Beryllium	7440-41-7	N	7.3	4					2.2
Cadmium	7440-43-9	N	1.8	5	0.63	0.27 J	0.36 J		0.2 J
Calcium	7440-70-2	---	---	---	91000	20000	40000	38000	7900
Calcium, Dissolved	7440-70-2	---	---	---	---	---	---	---	24000
Chromium	7440-47-3	---	---	100		3.5 J	2.5 J		78
Cobalt	7440-48-4	N	1.1	---	**41 J**	**3.8 J**	**16 J**	**14 J**	**14**
Cobalt, Dissolved	7440-48-4	N	1.1	---	---	---	---	---	0.73
Copper	7440-50-8	N	150	1,300	3.8 J	1.6 J	1.2 J		60
Iron	7439-89-6	N	2,600	---	680	**6800**	**3200**	**2800**	**54000**
Iron, Dissolved	7439-89-6	N	2,600	---	---	---	---	---	**4200**
Lead	7439-92-1	---	---	15	1.3 J	0.74 J			**34**
Lead, Dissolved	7439-92-1	---	---	15	---	---	---	---	0.26 J
Magnesium	7439-95-4	---	---	---	31000	11000	18000	17000	6000
Magnesium, Dissolved	7439-95-4	---	---	---	---	---	---	---	8900
Manganese	7439-96-5	N	88	---	**2300**	**160**	**1800**	**1700**	**370**
Manganese, Dissolved	7439-96-5	N	88	---	---	---	---	---	**520**
Nickel	7440-02-0	N	73	---	14	4.4 J	22	19	27
Nickel, Dissolved	7440-02-0	N	73	---	---	---	---	---	5.2
Potassium	7440-09-7	---	---	---	3900	1700	1300	1100	2100
Potassium, Dissolved	7440-09-7	---	---	---	---	---	---	---	1000
Selenium	7782-49-2	N	18	50					1.2 J
Sodium	7440-23-5	---	---	---	120000	440000	1200000	1100000	120000
Sodium, Dissolved	7440-23-5	---	---	---	---	---	---	---	140000
Vanadium	7440-62-2	N	18	---	3.7 J	4.6 J	5 J	4 J	**130**
Vanadium, Dissolved	7440-62-2	N	18	---	---	---	---	---	5 J
Zinc	7440-66-6	N	1,100	---	18 J	17 J	20		61
Zinc, Dissolved	7440-66-6	N	1,100	---	---	---	---	---	14 J
Inorganic, Non-Metals (ug/L)									
Chloride	16887-00-6	---	---	---	78000	110000	250000	250000	8700
Nitrogen, Kjeldahl	---	---	---	---	350	1900	2900	2400	5500
Nitrate as N	14797-55-8	N	5,800	10,000	**13000**	530	400		1100
Nitrite as N	14797-65-0	N	370	1,000				**4300**	80
Sulfate	14808-79-8	---	---	---	340000	150000			51000
Total Organic Carbon	7440-44-0	---	---	---	1500	16000	73000	73000	9500

Notes:
ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with EPA
[1]Carcinogen/Non-Carcinogen taken from Oakridge National Laboratory under an Interagency agreement with EPA
[2]Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)
B = the compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
J = the positive result reported for this analyte is a quantitative estimate. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Table 11
Summary of Detected Groundwater Constituents, Reten-Aqualon Basin
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N[1]	Tapwater[2]	MCL	RAB-MW2 4/28/2011 Conc/Qual	RAB-MW3 4/28/2011 Conc/Qual	RAB-MW4 4/28/2011 Conc/Qual
Volatile Organic Compounds (ug/L)							
Acetone	67-64-1	N	2,200	---	6.5 J		
Diethyl ether	60-29-7	N	730	---	10	1.8 J	4.3 J
Methyl tert-butyl ether	1634-04-4	C	12	---	0.68 J		
t-Butanol	75-65-0	---	12	---	**160**	**270**	
Volatile Organic Compounds - TICs (ug/L)							
Unknown	---	---	---	---		6.1 J	
Metals (ug/L)							
Aluminum	7429-90-5	N	3,700	---	470	**8000**	2600
Arsenic	7440-38-2	C	0.045	10	**5.6**	**6.6**	**1.3 J**
Barium	7440-39-3	N	730	2,000	46	210	18
Beryllium	7440-41-7	N	7.3	4	0.22 J	0.54	0.19 J
Cadmium	7440-43-9	N	1.8	5	0.23 J		0.5
Calcium	7440-70-2	---	---	---	85000	12000	250000
Chromium	7440-47-3	---	---	100	6.7	16	8.3
Cobalt	7440-48-4	N	1.1	---	**120 J**	**9.5 J**	**2.5 J**
Copper	7440-50-8	N	150	1,300	6.2	7	4.9 J
Iron	7439-89-6	N	2,600	---	**96000**	**130000**	**3000**
Lead	7439-92-1	---	---	15	0.68 J	10	1.5
Magnesium	7439-95-4	---	---	---	160000	25000	220000
Manganese	7439-96-5	N	88	---	**12000**	**420**	**610**
Nickel	7440-02-0	N	73	---	68	13	51
Potassium	7440-09-7	---	---	---	2200	1100	5100
Selenium	7782-49-2	N	18	50		1.2 J	
Silver	7440-22-4	N	18	---	0.19 J		
Sodium	7440-23-5	---	---	---	490000	58000	360000
Vanadium	7440-62-2	---	18	---	3.9 J	26	7.4 J
Zinc	7440-66-6	N	1,100	---	25	22	22
Inorganic, Non-Metals (ug/L)							
Chloride	16887-00-6	---	---	---	530000	59000	350000
Nitrogen, Kjeldahl	---	---	---	---	1500	3900	250
Nitrate as N	14797-55-8	N	5,800	10,000	390		
Nitrite as N	14797-65-0	N	370	1,000		11 J	
Sulfate	14808-79-8	---	---	---	1200000	21000	1600000
Total Organic Carbon	7440-44-0	---	---	---	12000	28000	2600

Notes:
ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with EPA
[1]Carcinogen/Non-Carcinogen taken from Oakridge National Laboratory under an Interagency agreement with EPA
[2]Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)
J = the positive result reported for this analyte is a quantitative estimate. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Table 12
Summary of Detected Groundwater Constituents, Sludge Drying Beds
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N[1]	Tapwater [2]	MCL	SDB-MW-1 4/26/2011 Conc/Qual	SDB-MW-2 4/26/2011 Conc/Qual	SDB-MW-3 4/26/2011 Conc/Qual
Volatile Organic Compounds (ug/L)							
Acetone	67-64-1	N	2,200	---	6.9 J		
Diethyl ether	60-29-7	N	730	---			440
t-Butanol	75-65-0	---	12	---	3.1 J		**790**
Metals (ug/L)							
Aluminum	7429-90-5	N	3,700	---	**13000**	130	1300
Arsenic	7440-38-2	C	0.045	10	**7.7**		
Barium	7440-39-3	N	730	2,000	490	15	22
Beryllium	7440-41-7	N	7.3	4	0.66		
Cadmium	7440-43-9	N	1.8	5		0.34 J	0.7
Calcium	7440-70-2	---	---	---	82000	490000	380000
Chromium	7440-47-3	---	---	100	**160**	3.4 J	19
Cobalt	7440-48-4	N	1.1	---	**9**	**5.8**	**8.4**
Copper	7440-50-8	N	150	1,300	37	8.5	15
Iron	7439-89-6	N	2,600	---	**230000**	810	1700
Lead	7439-92-1	---	---	15	9.8		0.91 J
Magnesium	7439-95-4	---	---	---	22000	100000	100000
Manganese	7439-96-5	N	88	---	**2300**	**1800**	**1500**
Nickel	7440-02-0	N	73	---	**95**	29	46
Potassium	7440-09-7	---	---	---	15000	1800	2300
Selenium	7782-49-2	N	18	50	2.5		12
Sodium	7440-23-5	---	---	---	77000	300000	300000
Vanadium	7440-62-2	N	18	---	**27**		4 J
Zinc	7440-66-6	N	1,100	---	78	49 B	29 B
Inorganic, Non-Metals (ug/L)							
Chloride	16887-00-6	---	---	---	45000	130000	280000
Nitrogen, Kjeldahl	---	---	---	---	14000	400	390
Nitrate as N	14797-55-8	N	5,800	10,000	31 L		290 L
Nitrite as N	14797-65-0	N	370	1,000	10 L		
Sulfate	14808-79-8	---	---	---		1200000	1100000
Total Organic Carbon	7440-44-0	---	---	---	51000	6300	5600

Notes:
ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with EPA
[1]Carcinogen/Non-Carcinogen taken from Oakridge National Laboratory under an Interagency agreement with EPA
[2]Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)
B = the compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
J = the positive result reported for this analyte is a quantitative estimate. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.

Table 13
Summary of Detected Groundwater Constituents, Vacuum Filter Sludge Pile
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N	Tapwater	MCL	VFSP-MW-1 4/29/2011 Conc/Qual
Volatile Organic Compounds (ug/L)					
Diethyl ether	60-29-7	N	730	---	69
t-Butanol	75-65-0	---	12	---	6.3
Metals (ug/L)					
Aluminum	7429-90-5	N	3,700	---	73 J
Barium	7440-39-3	N	730	2,000	180
Calcium	7440-70-2	---	---	---	86000
Cobalt	7440-48-4	N	1.1	---	**2.2**
Copper	7440-50-8	N	150	1,300	1.1 J
Iron	7439-89-6	N	2,600	---	**3900**
Magnesium	7439-95-4	---	---	---	8300
Manganese	7439-96-5	N	88	---	**760**
Nickel	7440-02-0	N	73	---	2.4 B
Potassium	7440-09-7	---	---	---	6600
Sodium	7440-23-5	---	---	---	35000
Inorganic, Non-Metals (ug/L)					
Chloride	16887-00-6	---	---	---	51000
Nitrogen, Kjeldahl	---	---	---	---	370
Sulfate	14808-79-8	---	---	---	130000
Total Organic Carbon	7440-44-0	---	---	---	680 J

Notes:
ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with EPA
[1]Carcinogen/Non-Carcinogen taken from Oakridge National Laboratory under an Interagency agreement with EPA
[2]Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)
B = the compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
J = the positive result reported for this analyte is a quantitative estimate. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Table 14
Summary of Detected Groundwater Constituents, Main Holding Basin
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N	Tapwater	MCL	MW-1 5/2/2011 Conc/Qual	MW-2 4/29/2011 Conc/Qual	MW-3 4/26/2011 Conc/Qual	MW-4 4/29/2011 Conc/Qual	MW-4U 4/29/2011	MW-5 4/29/2011 Conc/Qual	MW-5 DUP 4/29/2011 Conc/Qual	MW-5U 4/29/2011 Conc/Qual
Volatile Organic Compounds (ug/L)												
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---								
1,1-Dichloroethane	75-34-3	C	2.4	---	0.95 J							
1,1-Dichloroethene	75-35-4	N	34	7	0.39 J							
1,2-Dichloroethane	107-06-2	C	0.15	5								
Acetone	67-64-1	N	2,200	---					13 J			
Chloroform	67-66-3	C	0.19	80								
cis-1,2-Dichloroethene	156-59-2	N	7.3	70		0.99 J						
Diethyl ether	60-29-7	N	730	---	**1700**	**10000**		**1400**	**1700**	200	220	650
t-Butanol	75-65-0	---	12	---				**2800**	**3400**	**150**	**180**	
Tetrachloroethene	127-18-4	C	0.11	5								
trans-1,2-Dichloroethene	156-60-5	N	11	100								
Trichloroethylene	79-01-6	C	2	5	0.15 J							
Volatile Organic Compounds - TICs (ug/L)												
Naphthalene, 1-methyl-	90-12-0	C	2.3	---		**3400 T J N**						
Tetrahydrofuran	109-99-9	---	---	---								2.6 J
Unknown	---	---	---	---		8.4 J						
Semivolatile Organic Compounds (ug/L)												
1,4-Dichlorobenzene	106-46-7	C	0.43	75	0.37 B	0.29 B	0.15 B	0.41 B	0.4 B	0.31 B	0.39 B	**0.67 B**
1,4-Dioxane	123-91-1	C	0.67	---	**9.6**	**21**	**2.1**	**4**	**5.1**	**1.3 J**		**2.7**
2-Methylnaphthalene	91-57-6	N	15	---								
Acenaphthene	83-32-9	N	220	---								
Acetophenone	98-86-2	N	370	---				0.13 B			0.1 B	
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---		**0.22 J**						
Hexachlorobutadiene	87-68-3	C	0.86	---								
Naphthalene	91-20-3	C	0.14	---								
Semivolatile Organic Compounds - TICs (ug/L)												
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---								
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---								
Diethyltoluamide	134-62-3	---	---	---	2 J N							
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---	2.8 J N							
Octadecanoic acid, butyl ester	123-95-5	---	---	---								
Oleic Acid	112-80-1	---	---	---	5.2 J N		5.6 J N					
Phosphine oxide, triphenyl-	791-28-6	---	---	---								
Sulfur	7704-34-9	---	---	---								
Sulfur, mol. (S8)	10544-50-0	---	---	---	7.6 J N							
Unknown		---	---	---	1.5 J	9.3 B	79 J	11 J	18 J	21 J	45 J	19 J
Unknown		---	---	---	1.1 J	6.2 J	5.3 J	17 J	19 J	15 J	55 J	180 J
Unknown		---	---	---	40 J	100 J	8.7 J	28 J	67 J	95 J	100 J	10 J
Unknown		---	---	---	4.2 J	4.8 J	45 J	17 J	58 J	67 J	83 J	150 J
Unknown		---	---	---	3.8 B	5.6 J	41 J	110 J	11 J	49 J	48 J	15 J
Unknown		---	---	---		91 J	7.7 J	14 J	10 J	30 J	36 J	80 J
Unknown		---	---	---		49 J	18 J	15 J	36 J	35 J	41 J	52 J
Unknown		---	---	---		12 J	20 J	91 J	7.9 J	30 J	41 J	30 J
Unknown		---	---	---				38 J	10 J	24 J	30 J	20 J
Unknown		---	---	---						17 J		
Unknown Aldol Condensate		---	---	---	2.6 A	8.1 B	11 B					
Unknown Organic Acid		---	---	---		4 J		7.9 J	16 J		37 J	64 J
Unknown Organic Acid		---	---	---								
Unknown Organic Acid		---	---	---								

Table 14
Summary of Detected Groundwater Constituents, Main Holding Basin
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N	Tapwater	MCL	MW-1 5/2/2011 Conc/Qual	MW-2 4/29/2011 Conc/Qual	MW-3 4/26/2011 Conc/Qual	MW-4 4/29/2011 Conc/Qual	MW-4U 4/29/2011	MW-5 4/29/2011 Conc/Qual	MW-5 DUP 4/29/2011 Conc/Qual	MW-5U 4/29/2011 Conc/Qual
Alcohols and Glycols (ug/L)												
Ethanol	64-17-5	---	---	---	1700 L							
Methanol	67-56-1	N	1,800	---		**120000**		**5100**				**160000**
Metals (ug/L)												
Aluminum	7429-90-5	N	3,700	---	60 J	840	250	120	800	670	610	88 J
Arsenic	7440-38-2	C	0.045	10		**4**	**2.4 J**	**3.8**	**4.7**	**1.6 J**	**1.7 J**	**5.7**
Barium	7440-39-3	N	730	2,000	65	180	460	**760**	**810**	**790**	**780**	140
Beryllium	7440-41-7	N	7.3	4	0.16 J	0.63			0.56			
Cadmium	7440-43-9	N	1.8	5		0.16 J	0.23 J					
Calcium	7440-70-2	---	---	---	180000	260000	72000	110000	100000	190000	180000	120000
Chromium	7440-47-3	---	---	100	14	3.4 J	3.4 J	4.1 J	11			4.8 J
Cobalt	7440-48-4	N	1.1	---	**1.1**	**33**	1	**9.5**	**31**	**1.6**	**1.5**	**9.6**
Copper	7440-50-8	N	150	1,300	10	12	1.5 J	3.7 J	6.1	1.7 J	1.9 J	2.7 J
Iron	7439-89-6	N	2,600	---	**8600**	**150000**	**19000**	**61000**	**96000**	**53000**	**51000**	**13000**
Lead	7439-92-1	---	---	15		0.6 J	0.54 J		0.86 J			
Magnesium	7439-95-4	---	---	---	50000	88000	9900	36000	43000	41000	39000	31000
Manganese	7439-96-5	N	88	---	**3000**	**9600**	**830**	**2300**	**1900**	**3000**	**2900**	**2100**
Mercury	7439-97-6	N	0.063	2					**0.58 J**			
Nickel	7440-02-0	N	73	---	9.5	7.5	3.7 J	4.3 B	12	2.7 B	2.3 B	8.9 B
Potassium	7440-09-7	---	---	---	4400	5000	9400	6300	10000	6700	6800	6600
Selenium	7782-49-2	N	18	50								
Silver	7440-22-4	N	18	---	0.36 J				0.48 J			
Sodium	7440-23-5	---	---	---	260000	380000	200000	470000	510000	760000	710000	1900000
Vanadium	7440-62-2	N	18	---		3.8 J		4.3 J	6.2 J	5 J	4.9 J	**240**
Zinc	7440-66-6	N	1,100	---	31	31	23 B	9.4 J	23		12 J	10 J
Inorganic, Non-Metals (ug/L)												
Chloride	16887-00-6	---	---	---	220000	1000000	110000	540000	650000	1200000	1100000	2000000
Nitrogen, Kjeldahl	---	---	---	---	280	990	4900	7500	19000	3000	3300	2400
Nitrate as N	14797-55-8	N	5,800	10,000	19 J	150	310 L			1000	350	28 B
Nitrite as N	14797-65-0	N	370	1,000				12 J	22 J			
Sulfate	14808-79-8	---	---	---	710000	420000	37000			150000	130000	390000
Total Organic Carbon	7440-44-0	---	---	---	3700	4800	9000	32000	36000	14000	15000	26000

Table 14
Summary of Detected Groundwater Constituents, Main Holding Basin
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N	Tapwater	MCL	MW-6 4/26/2011 Conc/Qual	MW-7L 4/28/2011 Conc/Qual	MW-7U 4/28/2011 Conc/Qual	MW-8D 4/26/2011 Conc/Qual	MW-8U 4/26/2011 Conc/Qual	MW-9 4/29/2011 Conc/Qual	MW-10 4/28/2011 Conc/Qual
Volatile Organic Compounds (ug/L)											
1,1,2,2-Tetrachloroethane	79-34-5	C	0.067	---							**0.5 J**
1,1-Dichloroethane	75-34-3	C	2.4	---						0.83 J	1.4
1,1-Dichloroethene	75-35-4	N	34	7						0.65 J	1.8
1,2-Dichloroethane	107-06-2	C	0.15	5							**0.21 J**
Acetone	67-64-1	N	2,200	---							
Chloroform	67-66-3	C	0.19	80							**0.94 J**
cis-1,2-Dichloroethene	156-59-2	N	7.3	70						0.21 J	0.36 J
Diethyl ether	60-29-7	N	730	---	**1300**		93		**1800**	**3300**	20
t-Butanol	75-65-0	---	12	---	**1600**		6.1		**1800**	**130 J**	
Tetrachloroethene	127-18-4	C	0.11	5							**13**
trans-1,2-Dichloroethene	156-60-5	N	11	100							1.1
Trichloroethylene	79-01-6	C	2	5			0.54 J				**2.1**
Volatile Organic Compounds - TICs (ug/L)											
Naphthalene, 1-methyl-	90-12-0	C	2.3	---							
Tetrahydrofuran	109-99-9	---	---	---							
Unknown	---	---	---	---							
Semivolatile Organic Compounds (ug/L)											
1,4-Dichlorobenzene	106-46-7	C	0.43	75	0.13 B	0.17 B	0.12 B	0.15 B	0.12 B	0.3 B	0.14 B
1,4-Dioxane	123-91-1	C	0.67	---	**2.7**		**1.2 J**		**8.6**	**9.8**	**24**
2-Methylnaphthalene	91-57-6	N	15	---			0.25				
Acenaphthene	83-32-9	N	220	---			0.17 J				
Acetophenone	98-86-2	N	370	---				0.11 B			
Bis(2-chloroethyl)ether	111-44-4	C	0.012	---							
Hexachlorobutadiene	87-68-3	C	0.86	---							0.12 J
Naphthalene	91-20-3	C	0.14	---			**0.18 J**				
Semivolatile Organic Compounds - TICs (ug/L)											
Acetic acid, (triphenylphosphoranylidene	2605-67-6	---	---	---			3.3 J N		19 B		2.6 J N
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	---	---	---	16 J N			19 J N			
Diethyltoluamide	134-62-3	---	---	---							7.7 J N
Octadecanoic acid, 2-methylpropyl ester	646-13-9	---	---	---							
Octadecanoic acid, butyl ester	123-95-5	---	---	---				3.3 J N			1.2 J N
Oleic Acid	112-80-1	---	---	---			2.2 J N				
Phosphine oxide, triphenyl-	791-28-6	---	---	---		2.7 J N					
Sulfur	7704-34-9	---	---	---						6.3 J N	
Sulfur, mol. (S8)	10544-50-0	---	---	---							
Unknown		---	---	---	11 J	2 J	52 J	29 J	4.8 J	5.8 J	1.6 J
Unknown		---	---	---	69 J	0.95 J	2.4 J	1.8 J	320 J	3.9 J	1.1 J
Unknown		---	---	---	40 J	6.6 J	1.9 J	1.5 J	58 J	6.4 J	0.76 J
Unknown		---	---	---	30 J	1.1 J	160 J	27 J	34 J	6.7 J	1 J
Unknown		---	---	---	19 J	0.6 J	2.5 J	5.5 B	6.3 J	140 J	1.6 J
Unknown		---	---	---	31 J		3 J	1.5 B	24 J	3.1 J	
Unknown		---	---	---	10 J		1.4 J	1.5 J	8.2 J	8.1 J	
Unknown		---	---	---	17 J		49 J	2.5 J			
Unknown		---	---	---							
Unknown		---	---	---							
Unknown Aldol Condensate		---	---	---		20 A			21 B	8.1 B	24 A
Unknown Organic Acid		---	---	---	22 J	1.1 J			7.4 J	34 J	1.8 J
Unknown Organic Acid		---	---	---		0.76 J					
Unknown Organic Acid		---	---	---		0.8 J					

Table 14
Summary of Detected Groundwater Constituents, Main Holding Basin
April/May 2011 Groundwater Sampling Event
Hercules - Aqualon
Hopewell, Virginia

	CAS Number	C or N	Tapwater	MCL	MW-6 4/26/2011 Conc/Qual	MW-7L 4/28/2011 Conc/Qual	MW-7U 4/28/2011 Conc/Qual	MW-8D 4/26/2011 Conc/Qual	MW-8U 4/26/2011 Conc/Qual	MW-9 4/29/2011 Conc/Qual	MW-10 4/28/2011 Conc/Qual
Alcohols and Glycols (ug/L)											
Ethanol	64-17-5	---	---	---	1300				1400		
Methanol	67-56-1	N	1,800	---		**2200**					
Metals (ug/L)											
Aluminum	7429-90-5	N	3,700	---	820	3400	460	700	**4700**	1500	680
Arsenic	7440-38-2	C	0.045	10	**2.1 J**	**1.5 J**	**1.4 J**		**15**	**4**	
Barium	7440-39-3	N	730	2,000	480	160	56	77	340	92	15
Beryllium	7440-41-7	N	7.3	4	0.34 J	0.73	3	0.18 J	0.23 J		0.25 J
Cadmium	7440-43-9	N	1.8	5	0.44 J	0.16 J	**11**	**2.9**	0.28 J		**4.5**
Calcium	7440-70-2	---	---	---	230000	94000	560000	38000	190000	230000	130000
Chromium	7440-47-3	---	---	100	4.8 J	13		3.3 J	29	8.9	
Cobalt	7440-48-4	N	1.1	---	**32**	**6.1 J**	**440 J**	0.29 J	**20**	**2.6**	**91 J**
Copper	7440-50-8	N	150	1,300	5.7	5.6	88	5.3	6.3	3.1 J	3 J
Iron	7439-89-6	N	2,600	---	**56000**	**7900**	**43000**	1100	**36000**	**110000**	550
Lead	7439-92-1	---	---	15	1.7	2.5	1.7	0.9 J	2.2	1.1 J	0.54 J
Magnesium	7439-95-4	---	---	---	42000	7800	320000	3300	45000	62000	38000
Manganese	7439-96-5	N	88	---	**5900**	**810**	**48000**	**250**	**2400**	**2800**	**4700**
Mercury	7439-97-6	N	0.063	2			**1.6**				
Nickel	7440-02-0	N	73	---	8.3	8.7	**130**	3.2 J	19	6.4 B	**73**
Potassium	7440-09-7	---	---	---	4600	5600	3800	5300	24000	7600	4900
Selenium	7782-49-2	N	18	50	1.3 J				1.5 J		
Silver	7440-22-4	N	18	---		0.49 J	2.1			0.42 J	
Sodium	7440-23-5	---	---	---	540000	20000	280000	14000	530000	340000	210000
Vanadium	7440-62-2	N	18	---	5.4 J	11			14	5.7 J	3.3 J
Zinc	7440-66-6	N	1,100	---	22 B	14 J	110	23 B	27 B	14 J	37
Inorganic, Non-Metals (ug/L)											
Chloride	16887-00-6	---	---	---	610000	55000	2100000	3600	480000	570000	250000
Nitrogen, Kjeldahl	---	---	---	---	4800	250	750	220	11000	1600	280
Nitrate as N	14797-55-8	N	5,800	10,000	30 L		18 J	97 L	18 L		5700
Nitrite as N	14797-65-0	N	370	1,000						12 J	
Sulfate	14808-79-8	---	---	---	140000	32000	520000	4800 J	340000	650000	530000
Total Organic Carbon	7440-44-0	---	---	---	22000	690 J	2400	610 J	11000	6900	1400

Notes:

ug/L = micrograms per liter; MCL = USEPA Maximum Contaminant Level; RL = Reporting limit; MDL = Method detection limit

June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with EPA

[1]Carcinogen/Non-Carcinogen taken from Oakridge National Laboratory under an Interagency agreement with EPA

[2]Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

A = The tentatively identified compound is a suspected aldol-condensation product.

B = the compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank

J = the positive result reported for this analyte is a quantitative estimate. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.

T = Result is a tentatively identified compound (TIC) and an estimated value.

N = This flag indicates the presumptive evidence of a compound.

Table 15
Summary of Phase III Detected Sludge/Sediment Constituents, Whitewater Lagoons
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				WWL										
								WLSS-1A	WLSS-1B	WLSS-2A	WLSS-2B	WLSS-3A	WLSS-3B	WLSS-4A DUP (BD-6)	WLSS-4A	WLSS-4B	WLSS-5A	WLSS-5B
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/11/2007	5/11/2007	5/11/2007	5/11/2007	5/11/2007	5/10/2007	5/10/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Volatile Organic Compounds																		
2-Butanone (MEK)	78-93-3	N	ug/Kg	1,500	30,000	---	---	---	---	---	---	---	---	---	---	33 J	---	---
Acetone	67-64-1	N	ug/Kg	4,500	90,000	---	---	490 J	42 J	640 J	71	600	74	550 J	430 J	190	210 J	26 J
Carbon disulfide	75-15-0	N	ug/Kg	310	6,200	---	---	---	---	---	---	---	---	---	---	33	---	---
Diethyl ether	60-29-7	N	ug/Kg	1,600	32,000	---	---	---	---	280	170 J	---	---	---	---	---	---	---
t-Butanol[3]	75-65-0	---	ug/Kg	760	15,200	---	---	---	---	4,300	4,800	150	---	110	100	---	840 J	340
Volatile Organic Compounds-TIC																		
Carbon Dioxide	124-38-9	---	ug/Kg	---	---	---	---	54,000 B	490 B	61,000 B	1,200 B	42,000 B	370 B	47,000 B	36,000 B	860 B	11,000 B	410 B
Semivolatile Organic Compounds																		
3 & 4 Methylphenol[3]	15831-10-4	---	ug/Kg	150	3,000	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Phenols,Total	1319-77-3	N	ug/Kg	760	15,200	---	---	---	---	---	---	---	---	---	---	---	---	---
Semivolatile Organic Compounds-TIC																		
.gamma.-Sitosterol	83-47-6	---	ug/Kg	---	---	---	---	2,800 J N	---	---	---	---	---	---	---	---	---	---
1-Decene[3]	872-05-9	---	ug/Kg	6,200	124,000	---	---	---	---	---	---	---	---	4,200 J N	2,200 J N	---	---	---
Cyclododecane[3]	294-62-2	---	ug/Kg	13,000	260,000	---	---	---	---	---	---	1,900 J N	---	1,800 J N	---	---	---	---
Cyclopropane, nonyl-[3]	74663-85-7	---	ug/Kg	13,000	260,000	---	---	---	---	---	---	3,900 J N	---	---	---	---	---	---
Ethane, 1,1,2,2-tetrachloro-	79-34-5	C	ug/Kg	0.026	0.52	---	---	---	---	---	---	---	---	---	---	---	---	---
Alcohols and Glycols																		
Methanol	67-56-1	N	ug/Kg	3,700	74,000	---	---	---	---	---	---	---	---	---	---	---	14,000	---
Metals																		
Aluminum	7429-90-5	N	ug/Kg	55,000,000	1,100,000,000	---	---	23,000,000 J	11,000,000 J	13,000,000 J	7,400,000 J	11,000,000	9,200,000	6,600,000	5,900,000	20,000,000	7,100,000 J	3,000,000 J
Antimony	7440-36-0	N	ug/Kg	660	13,200	270	5,400	---	---	3,400 J	---	2,700 J	---	2,900 J	2,400 J	---	2,200 J	---
Arsenic	7440-38-2	C	ug/Kg	1.3	26	290	5,800	4,900 J	1,700	6,500 J	990	5,700	1,200	5,100 J	4,000 J	2,800	4,200 J	440 J
Barium	7440-39-3	N	ug/Kg	300,000	6,000,000	82,000	1,640,000	100,000	46,000	84,000	25,000	89,000 L	41,000 L	74,000 L	97,000 L	100,000 L	73,000	16,000
Beryllium	7440-41-7	N	ug/Kg	58,000	1,160,000	3,200	64,000	850 J	560	500 J	210	---	290	---	---	1,100	320 J	160
Cadmium	7440-43-9	N	ug/Kg	1,400	28,000	380	7,600	1,400	30 J	1,400	---	1,700	---	1,200 J	1,600	---	1,100	28 J
Calcium	7440-70-2	---	ug/Kg	---	---	---	---	8,500,000	870,000	8,900,000	410,000	11,000,000 J	460,000 J	12,000,000 J	14,000,000 J	980,000 J	12,000,000	570,000
Chromium	7440-47-3	N	ug/Kg	---	---	180,000,000	3,600,000,000	52,000	24,000	46,000	12,000	41,000	14,000	29,000	29,000	36,000	26,000	7,300
Cobalt	7440-48-4	N	ug/Kg	490	9,800	---	---	8,100	4,900	5,000	2,000	3,800	3,100	2,500	2,400	13,000	2,400	1,700
Copper	7440-50-8	N	ug/Kg	51,000	1,020,000	46,000	920,000	160,000	11,000	280,000	2,800	300,000 L	4,000 L	220,000 L	280,000 L	20,000 L	210,000	2,300
Iron	7439-89-6	N	ug/Kg	640,000	12,800,000	---	---	19,000,000 J	10,000,000 J	13,000,000 J	4,200,000 J	12,000,000 J	6,300,000 J	9,600,000 J	9,600,000 J	25,000,000 J	9,100,000 J	2,800,000 J
Lead	7439-92-1	---	ug/Kg	---	---	14,000	280,000	57,000	13,000	74,000	9,200	68,000	13,000	49,000	56,000	17,000	47,000	3,300
Magnesium	7439-95-4	---	ug/Kg	---	---	---	---	2,300,000	1,000,000	1,900,000	350,000	2,000,000	460,000	1,800,000	2,300,000	1,200,000	1,700,000	360,000
Manganese	7439-96-5	N	ug/Kg	57,000	1,140,000	---	---	170,000	40,000	140,000	29,000	130,000	33,000	120,000	120,000	62,000	130,000	29,000
Mercury	7439-97-6	N	ug/Kg	30	600	100	2,000	---	---	---	---	---	---	---	---	---	---	---
Nickel	7440-02-0	N	ug/Kg	48,000	960,000	---	---	40,000	6,900	51,000	2,600	42,000	3,100	37,000	34,000	14,000	32,000	1,900
Potassium	7440-09-7	---	ug/Kg	---	---	---	---	1,200,000	730,000	1,200,000	380,000	950,000	360,000	720,000	620,000	1,200,000	650,000	320,000
Selenium	7782-49-2	N	ug/Kg	950	19,000	260	5,200	---	260 J	---	190 J	1,200 J	180 J	1,200 J	960 J	230 J	1,000 J	---
Silver	7440-22-4	N	ug/Kg	1,600	32,000	---	---	700 J	---	1,000 J	---	920 J	---	770 J	1,400 J	---	670 J	---
Sodium	7440-23-5	---	ug/Kg	---	---	---	---	860,000	210,000	2,100,000	530,000	1,400,000	260,000	1,400,000	1,600,000	630,000	1,200,000	200,000
Thallium	7440-28-0	N	ug/Kg	26	520	140	2,800	---	170 J	---	120 J	---	230 J	---	---	310 J	---	---
Vanadium	7440-62-2	N	ug/Kg	180,000	3,600,000	---	---	76,000	37,000	64,000	18,000	59,000	22,000	50,000	41,000	56,000	45,000	11,000
Zinc	7440-66-6	N	ug/Kg	680,000	13,600,000	---	---	1,200,000	26,000	1,300,000	9,100	1,200,000	10,000	800,000	950,000	32,000	700,000	6,300

Table 15
Summary of Phase III Detected Sludge/Sediment Constituents, Whitewater Lagoons
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				EWL									
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		ELSS-1A	ELSS-1B	ELSS-2A	ELSS-2B	ELSS-3A	ELSS-3B	ELSS-4A	ELSS-4B	ELSS-5A	ELSS-5B
								5/9/2007	5/9/2007	5/9/2007	5/9/2007	5/10/2007	5/10/2007	5/9/2007	5/9/2007	5/9/2007	5/9/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Volatile Organic Compounds																	
2-Butanone (MEK)	78-93-3	N	ug/Kg	1,500	30,000	---	---	81 J	---	110 J	---	---	---	---	---	---	---
Acetone	67-64-1	N	ug/Kg	4,500	90,000	---	---	430	95	500	56 J	360 J	45 J	450 J	56 J	710	62 J
Carbon disulfide	75-15-0	N	ug/Kg	310	6,200	---	---	---	---	---	---	---	---	---	---	---	---
Diethyl ether	60-29-7	N	ug/Kg	1,600	32,000	---	---	---	---	---	---	---	---	---	---	---	---
t-Butanol[3]	75-65-0	---	ug/Kg	760	15,200	---	---	130	220	---	53	280 J	47 J	200	370	130	36
Volatile Organic Compounds-TIC																	
Carbon Dioxide	124-38-9	---	ug/Kg	---	---	---	---	9,200 B	5,500 B	17,000 B	2,300 B	38,000 B	1,500 B	28,000 B	2,700 B	42,000 B	1,700 B
Semivolatile Organic Compounds																	
3 & 4 Methylphenol[3]	15831-10-4	---	ug/Kg	150	3,000	---	---	---	63 J	---	---	---	---	---	---	---	---
Methyl Phenols,Total	1319-77-3	N	ug/Kg	760	15,200	---	---	---	63 J	---	---	---	---	---	---	---	---
Semivolatile Organic Compounds-TIC																	
.gamma.-Sitosterol	83-47-6	---	ug/Kg	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-Decene[3]	872-05-9	---	ug/Kg	6,200	124,000	---	---	---	---	---	---	---	---	---	---	---	---
Cyclododecane[3]	294-62-2	---	ug/Kg	13,000	260,000	---	---	---	---	---	---	---	---	---	---	---	---
Cyclopropane, nonyl-[3]	74663-85-7	---	ug/Kg	13,000	260,000	---	---	---	---	---	---	---	---	---	---	---	---
Ethane, 1,1,2,2-tetrachloro-	79-34-5	C	ug/Kg	0.026	0.52	---	---	---	---	---	---	---	260 T	---	---	---	---
Alcohols and Glycols																	
Methanol	67-56-1	N	ug/Kg	3,700	74,000	---	---	---	1,600	---	---	---	---	---	---	---	---
Metals																	
Aluminum	7429-90-5	N	ug/Kg	55,000,000	1,100,000,000	---	---	12,000,000	11,000,000	27,000,000	15,000,000	32,000,000 J	26,000,000 J	8,300,000	24,000,000	12,000,000	19,000,000
Antimony	7440-36-0	N	ug/Kg	660	13,200	270	5,400	1,400 J	---	1,700 J	---	2,300 J	---	2,600 J	---	2,400 J	---
Arsenic	7440-38-2	C	ug/Kg	1.3	26	290	5,800	3,300	1,200	5,600	2,700	6,200	2,800	5,700	2,100	6,500	2,500
Barium	7440-39-3	N	ug/Kg	300,000	6,000,000	82,000	1,640,000	79,000	42,000	110,000	61,000	130,000	400,000	93,000	81,000	110,000	63,000
Beryllium	7440-41-7	N	ug/Kg	58,000	1,160,000	3,200	64,000	630	350	1,100	1,100	1,100	1,800	360 J	1,500	600 J	1,000
Cadmium	7440-43-9	N	ug/Kg	1,400	28,000	380	7,600	520	---	920	---	990	56 J	1,300	---	1,900	90 J
Calcium	7440-70-2	---	ug/Kg	---	---	---	---	3,100,000	490,000	4,700,000	690,000	5,500,000	740,000	14,000,000	720,000	12,000,000	810,000
Chromium	7440-47-3	N	ug/Kg	---	---	180,000,000	3,600,000,000	28,000	19,000	55,000	33,000	61,000	57,000	50,000	55,000	78,000	38,000
Cobalt	7440-48-4	N	ug/Kg	490	9,800	---	---	4,200	2,400	7,200	8,000	7,500	18,000	2,700	9,100	4,400	5,200
Copper	7440-50-8	N	ug/Kg	51,000	1,020,000	46,000	920,000	67,000	4,700	110,000	14,000	120,000	32,000	200,000	25,000	250,000	20,000
Iron	7439-89-6	N	ug/Kg	640,000	12,800,000	---	---	14,000,000	7,900,000	20,000,000	15,000,000	22,000,000 J	24,000,000 J	11,000,000	19,000,000	14,000,000	17,000,000
Lead	7439-92-1	---	ug/Kg	---	---	14,000	280,000	43,000	12,000	57,000	14,000	61,000	25,000	54,000	26,000	76,000	20,000
Magnesium	7439-95-4	---	ug/Kg	---	---	---	---	1,000,000	460,000	1,600,000	920,000	1,900,000	1,700,000	1,900,000	1,500,000	1,700,000	1,100,000
Manganese	7439-96-5	N	ug/Kg	57,000	1,140,000	---	---	92,000	30,000	120,000	69,000	140,000	380,000	150,000	56,000	180,000	39,000
Mercury	7439-97-6	N	ug/Kg	30	600	100	2,000	---	---	---	---	---	---	---	62 J	---	---
Nickel	7440-02-0	N	ug/Kg	48,000	960,000	---	---	22,000	3,500	35,000	11,000	39,000	26,000	37,000	18,000	72,000	12,000
Potassium	7440-09-7	---	ug/Kg	---	---	---	---	860,000	380,000	1,500,000	860,000	1,700,000	2,400,000	710,000	1,700,000	1,000,000	1,300,000
Selenium	7782-49-2	N	ug/Kg	950	19,000	260	5,200	650 J	320 J	1,300 J	400 J	1,400 J	590 J	1,200 J	560 J	1,300 J	350 J
Silver	7440-22-4	N	ug/Kg	1,600	32,000	---	---	220 J	---	550 J	---	650 J	72 J	690 J	---	1,600 J	---
Sodium	7440-23-5	---	ug/Kg	---	---	---	---	3,400,000	5,000,000	4,000,000	4,000,000	4,000,000	8,500,000	3,500,000	5,700,000	2,400,000	4,600,000
Thallium	7440-28-0	N	ug/Kg	26	520	140	2,800	210 J	220 J	440 J	230 J	500 J	480	---	420	---	490
Vanadium	7440-62-2	N	ug/Kg	180,000	3,600,000	---	---	46,000	31,000	93,000	50,000	99,000	100,000	48,000	83,000	76,000	52,000
Zinc	7440-66-6	N	ug/Kg	680,000	13,600,000	---	---	470,000	13,000	1,400,000	34,000	1,600,000	71,000	1,400,000	59,000	3,700,000	51,000

Table 15
Summary of Phase III Detected Sludge/Sediment Constituents, Whitewater Lagoons
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				WWL										
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		WLSS-1A	WLSS-1B	WLSS-2A	WLSS-2B	WLSS-3A	WLSS-3B	WLSS-4A DUP (BD-6)	WLSS-4A	WLSS-4B	WLSS-5A	WLSS-5B
								5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/11/2007	5/11/2007	5/11/2007	5/11/2007	5/11/2007	5/10/2007	5/10/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Inorganic, Non-Metals																		
Chloride	16887-00-6	---	ug/Kg	---	---	---	---	680,000	110,000	960,000	220,000	630,000	130,000	670,000	310,000	1,700,000	500,000	140,000
Nitrate-Nitrite																		
Nitrate as N	14797-55-8	N	ug/Kg	---	---	---	---	73,000	16,000	280,000	4,100 J	36,000 J	7,000	---	26,000 J	---	33,000 J	8,900
Nitrate Nitrite as N	---	---	ug/Kg	---	---	---	---	41,800 J	---	---	---	---	---	---	---	---	---	---
Nitrite as N	14797-65-0	N	ug/Kg	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrogen																		
TKN	---	---	ug/Kg	---	---	---	---	16,000,000	600,000	22,000,000	530,000	30,000,000	810,000	15,000,000	21,000,000	1,800,000	29,000,000	520,000
TOC	7440-44-0	---	ug/Kg	---	---	---	---	250,000,000	2,400,000	310,000,000	8,000,000	330,000,000	9,800,000	360,000,000	370,000,000	14,000,000	410,000,000	1,100,000
Sulfate	14808-79-8	---	ug/Kg	---	---	---	---	---	370,000 K	---	210,000 K	---	570,000	---	---	830,000	---	490,000 K

Table 15
Summary of Phase III Detected Sludge/Sediment Constituents, Whitewater Lagoons
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				EWL									
								ELSS-1A	ELSS-1B	ELSS-2A	ELSS-2B	ELSS-3A	ELSS-3B	ELSS-4A	ELSS-4B	ELSS-5A	ELSS-5B
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		5/9/2007	5/9/2007	5/9/2007	5/9/2007	5/10/2007	5/10/2007	5/9/2007	5/9/2007	5/9/2007	5/9/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Inorganic, Non-Metals																	
Chloride	16887-00-6	---	ug/Kg	---	---	---	---	1,900,000	5,900,000	3,400,000	3,700,000	3,800,000	9,400,000	1,500,000	4,900,000	1,500,000	2,800,000
Nitrate-Nitrite																	
Nitrate as N	14797-55-8	N	ug/Kg	---	---	---	---	---	---	---	---	47,000 J	8,200	---	---	---	---
Nitrate Nitrite as N	---	---	ug/Kg	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite as N	14797-65-0	N	ug/Kg	---	---	---	---	---	---	---	---	---	---	---	880 J	22,000	880 J
Nitrogen																	
TKN	---	---	ug/Kg	---	---	---	---	4,500,000	250,000	11,000,000	630,000	13,000,000	1,600,000	20,000,000	910,000	24,000,000	790,000
TOC	7440-44-0	---	ug/Kg	---	---	---	---	68,000,000	3,800,000	110,000,000	4,200,000	110,000,000	1,800,000	290,000,000	5,300,000	300,000,000	1,700,000
Sulfate	14808-79-8	---	ug/Kg	---	---	---	---	1,500,000	1,400,000	1,100,000	570,000	1,600,000 K	2,500,000 K	---	940,000	---	650,000

Notes:
ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor

RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.
B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration
K = The positive result for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.
L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 16
Summary of Phase III Detected Soil Constituents, Old Landfill Landfill #156
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				OLF & Landfill #156								
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		OLF-1 DUP (BD-5)	OLF-1	OLF-2	OLF-3	OLF-4	OLF-5	OLF-6	OLF-7	OLF-8
								7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Volatile Organic Compounds																
2-Butanone (MEK)	78-93-3	N	ug/Kg	1,500	30,000	---	---	---	---	---	---	---	---	25 J	---	---
Acetone	67-64-1	N	ug/Kg	4,500	90,000	---	---	---	---	---	5.7 B	---	---	140	12 B	26 B
Chloroform	67-66-3	C	ug/Kg	0.053	1.06	22	440	---	---	---	---	2.2 J	---	---	---	---
Volatile Organic Compounds-TIC																
4-Isopropyltoluene[3]	99-87-6	---	ug/Kg	1,100	22,000	---	---	---	---	1.9 J	---	---	1.4 J	---	---	---
Carbon Dioxide	124-38-9	---	ug/Kg	---	---	---	---	860 B	1,000 B	2,400 B	1,200 B	1,900 B	2,400 B	2,400 B	1,600 B	2,800 B
Semivolatile Organic Compounds																
Benzo[a]anthracene	56-55-3	C	ug/Kg	10	200	---	---	---	---	---	---	---	43 J	---	---	40 J
Benzo[a]pyrene	50-32-8	C	ug/Kg	3.5	70	240	4800	---	---	---	---	---	45 J	---	---	34 J
Benzo[b]fluoranthene	205-99-2	C	ug/Kg	35	700	---	---	---	---	---	---	---	69 J	---	---	67 J
Benzo[g,h,i]perylene[3]	191-24-2	---	ug/Kg	120,000	2,400,000	---	---	---	---	---	---	---	31 J	---	---	26 J
Benzo[k]fluoranthene	207-08-9	C	ug/Kg	350	7,000	---	---	---	---	---	---	---	29 J	---	---	32 J
Chrysene	218-01-9	C	ug/Kg	1,100	22,000	---	---	---	---	---	---	24 J	66 J	---	---	71 J
Fluoranthene	206-44-0	N	ug/Kg	160,000	3,200,000	---	---	---	---	---	---	24 J	170 J	---	---	75 J
Phenanthrene[3]	85-01-8	---	ug/Kg	360,000	7,200,000	---	---	---	---	---	---	---	130 J	---	---	25 J
Pyrene	129-00-0	N	ug/Kg	120,000	2,400,000	---	---	---	---	---	---	21 J	120 J	---	---	64 J
Semivolatile Organic Compounds-TIC																
.gamma.-Sitosterol	83-47-6	---	ug/Kg	---	---	---	---	---	---	---	---	---	---	370 JN	---	---
28-Norolean-17-en-3-one[3]	5912-72-1	---	ug/Kg	0.074	1.48	---	---	1,500 JN	---	---	---	---	---	---	---	---
2-Pentanone, 4-hydroxy-4-methyl-[3]	123-42-2	---	ug/Kg	450	9,000	---	---	19,000 A	---	---	---	---	---	---	---	15,000 A
2-Pentanone, 4-methoxy-4-methyl-[3]	107-70-0	---	ug/Kg	450	9,000	---	---	390 A	260 A	290 A	290 A	290 A	260 A	400 A	380 A	300 A
3-Penten-2-one, 4-methyl-[3]	141-79-7	---	ug/Kg	450	9,000	---	---	410 A	---	290 A	---	---	270 A	430 A	370 A	560 A
4,5-Dimethylthiazole S-oxide	---	---	ug/Kg	---	---	---	---	---	---	---	---	---	---	---	---	780 JN
alpha-Pinene	---	---	ug/Kg	---	---	---	---	740	---	---	---	---	---	---	---	---
Benzene, 1-methyl-4-(1-methylethyl)-[3]	99-87-6	---	ug/Kg	0.21	4.2	2.6	52	210 JN	---	---	---	---	---	---	---	---
Benzyl cinnamate	103-41-3	---	ug/Kg	---	---	---	---	270 JN	---	---	---	---	---	---	---	---
Cholest-5-ene, 3-bromo-, (3.beta.)-	516-91-6	---	ug/Kg	---	---	---	---	---	---	---	---	---	---	---	---	240 JN
Cholesterol	57-88-5	---	ug/Kg	---	---	---	---	---	---	---	---	---	---	---	---	440 JN
D-Friedoolean-14-ene, 3-methoxy-, (3.bet)	14021-23-9	---	ug/Kg	---	---	---	---	---	---	---	190 A	---	---	---	---	---
Methylene Chloride	75-09-2	C	ug/Kg	1.2	24	1.3	26	---	---	---	---	---	---	---	210 T	290 T
Phenol, 2-(2-propenyl)-[3]	1745-81-9	---	ug/Kg	6,300	126,000	---	---	700 JN	---	---	---	---	---	---	---	---
Propane, 2,2-dimethoxy-[3]	77-76-9	---	ug/Kg	0.00014	0.0028	0.086	1.72	1,800 JN	---	---	---	---	---	---	1,200 JN	---
Metals																
Aluminum	7429-90-5	N	ug/Kg	55,000,000	1,100,000,000	---	---	13,000,000	14,000,000	17,000,000	14,000,000	8,700,000	7,200,000	7,300,000	4,900,000	4,100,000
Antimony	7440-36-0	N	ug/Kg	660	13,200	270	5,400	---	---	---	---	290 J	120 J	910	---	110 J
Arsenic	7440-38-2	C	ug/Kg	1.3	26	290	5,800	1,500	1,600	2,800	2,100	3,500	2,200	22,000	1,100	1,700
Barium	7440-39-3	N	ug/Kg	300,000	6,000,000	82,000	1,640,000	58,000	61,000	52,000	70,000	70,000	54,000	270,000	45,000	29,000
Beryllium	7440-41-7	N	ug/Kg	58,000	1,160,000	3,200	64,000	440	460	380	820	540	420	4,100	300	260
Cadmium	7440-43-9	N	ug/Kg	1,400	28,000	380	7,600	---	---	36 J	---	82 J	76 J	250	---	58 J
Calcium	7440-70-2	---	ug/Kg	---	---	---	---	750,000 J	790,000 J	670,000 J	740,000 J	1,300,000 J	620,000 J	2,700,000 J	560,000 J	650,000 J
Chromium	7440-47-3	N	ug/Kg	---	---	180,000,000	3,600,000,000	29,000 K	26,000 K	31,000 K	30,000 K	23,000 K	12,000 K	14,000 K	9,700 K	13,000 K
Cobalt	7440-48-4	N	ug/Kg	490	9,800	---	---	3,500 K	3,600 K	2,500 K	5,300 K	4,700 K	4,500 K	14,000 K	3,000 K	2,200 K
Copper	7440-50-8	N	ug/Kg	51,000	1,020,000	46,000	920,000	9,300 K	9,600 K	8,600 K	14,000 K	25,000 K	7,200 K	110,000 K	9,500 K	13,000 K
Iron	7439-89-6	N	ug/Kg	640,000	12,800,000	---	---	19,000,000	18,000,000	32,000,000	19,000,000	14,000,000	8,800,000	9,700,000	6,300,000	5,600,000
Lead	7439-92-1	---	ug/Kg	---	---	14,000	280,000	13,000 K	13,000 K	17,000 K	16,000 K	99,000 K	22,000 K	33,000 K	16,000 K	17,000 K
Magnesium	7439-95-4	---	ug/Kg	---	---	---	---	1,000,000 J	1,100,000 J	710,000 J	1,200,000 J	780,000 J	660,000 J	550,000 J	470,000 J	350,000 J
Manganese	7439-96-5	N	ug/Kg	57,000	1,140,000	---	---	54,000 K	56,000 K	24,000 K	82,000 K	83,000 K	430,000 K	66,000 K	110,000 K	65,000 K
Mercury	7439-97-6	N	ug/Kg	30	600	100	2,000	---	---	---	---	74 J	45 J	490	---	45 J
Nickel	7440-02-0	N	ug/Kg	48,000	960,000	---	---	7,100 K	6,100 K	5,800 K	7,900 K	12,000 K	4,500 K	28,000 K	5,200 K	5,400 K
Potassium	7440-09-7	---	ug/Kg	---	---	---	---	420,000	460,000	370,000	610,000	460,000	420,000	630,000	290,000	240,000
Selenium	7782-49-2	N	ug/Kg	950	19,000	260	5,200	250 J	250 J	400 J	360 J	310 J	240 J	1,800	130 J	200 J

Table 16
Summary of Phase III Detected Soil Constituents, Old Landfill Landfill #156
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				OLF & Landfill #156								
								OLF-1 DUP (BD-5)	OLF-1	OLF-2	OLF-3	OLF-4	OLF-5	OLF-6	OLF-7	OLF-8
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Metals (cont.)																
Silver	7440-22-4	N	ug/Kg	1,600	32,000	---	---	33 J	44 J	41 J	42 J	140 J	52 J	250 J	36 J	35 J
Sodium	7440-23-5	---	ug/Kg	---	---	---	---	660,000	610,000	42000 J	1,200,000	700,000	700,000	98,000	660,000	56,000
Thallium	7440-28-0	N	ug/Kg	26	520	140	2,800	190 J	220	290	260	160 J	---	890	---	---
Vanadium	7440-62-2	N	ug/Kg	180,000	3,600,000	---	---	45,000	45,000	69,000	56,000	47,000	22,000	37,000	25,000	13,000
Zinc	7440-66-6	N	ug/Kg	680,000	13,600,000	---	---	17,000	18,000	33,000	22,000	66,000	25,000	72,000	20,000	16,000
Inorganic, Non-Metals																
Chloride	16887-00-6	---	ug/Kg	---	---	---	---	970,000	150,000	6700 B	220,000	140,000	200,000	13,000 B	60,000	---
Nitrate-Nitrite																
Nitrate as N	14797-55-8	N	ug/Kg	---	---	---	---	---	---	---	---	---	---	16,000	---	5,600
Nitrogen																
TKN	---	---	ug/Kg	---	---	---	---	180,000 K	340,000 K	270,000 K	460,000 K	390,000 K	740,000 K	3,700,000 K	260,000 K	1,200,000 K
TOC	7440-44-0	---	ug/Kg	---	---	---	---	3,600,000	7,000,000	3,200,000	6,800,000	11,000,000	9,000,000	330,000,000	2,000,000	21,000,000
Sulfate	14808-79-8	---	ug/Kg	---	---	---	---	34,000 B	750,000	460,000	27,000 B	800,000	---	11,000 B	36,000 B	19,000 B

Notes:

ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor
RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.

A = The tentatively identified compound is a suspected aldol-condensation product
B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration
K = The positive result for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 17
Summary of Phase III Detected Sludge/Sediment Constituents, Natrosol Lagoon
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				Natrosol Lagoon					
								NLSS-1A	NLSS-1B	NLSS-2A	NLSS-2B	NLSS-3A	NLSS-3B
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		5/8/2007	5/8/2007	5/8/2007	5/8/2007	5/8/2007	5/8/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Volatile Organic Compounds													
Acetone	67-64-1	N	ug/Kg	4,500	90,000	---	---	76 J	160	53 J	110	170	150
t-Butanol[3]	75-65-0	---	ug/Kg	760	15,200	---	---	1,100	260	280 J	1,200	3,100	13,000
Volatile Organic Compounds-TIC													
Carbon Dioxide	124-38-9	---	ug/Kg	---	---	---	---	550 B	1,100 B	570 B	1,500 B	3,000 B	880 B
Methylcyclohexane[3]	108-87-2	---	ug/Kg	13,000	260,000	---	---	---	4.1 J	---	---	---	---
Semivolatile Organic Compounds													
Bis(2-ethylhexyl) phthalate	117-81-7	C	ug/Kg	1,100	22,000	1,400	28,000	---	---	---	---	---	130 J
Semivolatile Organic Compounds-TIC													
Ergostanol	6538-02-9	---	ug/Kg	---	---	---	---	---	350 J N	---	---	---	---
Ethane, 1,1,2,2-tetrachloro-	79-34-5	C	ug/Kg	0.026	0.52	---	---	---	---	---	---	---	170 T
Naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-[3]	483-76-1	---	ug/Kg	0.47	9.4	---	---	---	---	---	---	---	170 J N
Alcohols and Glycols													
Methanol	67-56-1	N	ug/Kg	3,700	74,000	---	---	640 J	---	860 J	1,300 J	620 J	520 J
Metals													
Aluminum	7429-90-5	N	ug/Kg	55,000,000	1,100,000,000	---	---	5,600,000	11,000,000	15,000,000	20,000,000	18,000,000	11,000,000
Antimony	7440-36-0	N	ug/Kg	660	13,200	270	5,400	---	---	250 J	---	---	---
Arsenic	7440-38-2	C	ug/Kg	1.3	26	290	5,800	1,400	1,500	5,000	1,600	2,700	1,500
Barium	7440-39-3	N	ug/Kg	300,000	6,000,000	82,000	1,640,000	34,000	64,000	73,000	78,000	74,000	55,000
Beryllium	7440-41-7	N	ug/Kg	58,000	1,160,000	3,200	64,000	320	570	660	620	670	510
Cadmium	7440-43-9	N	ug/Kg	1,400	28,000	380	7,600	30 J	46 J	88 J	---	---	---
Calcium	7440-70-2	---	ug/Kg	---	---	---	---	530,000	1,400,000	960,000	710,000	420,000	640,000
Chromium	7440-47-3	N	ug/Kg	---	---	180,000,000	3,600,000,000	18,000	33,000	28,000	33,000	39,000	24,000
Cobalt	7440-48-4	N	ug/Kg	490	9,800	---	---	2,700	5,100	5,700	5,800	5,700	4,500
Copper	7440-50-8	N	ug/Kg	51,000	1,020,000	46,000	920,000	8,400	17,000	17,000	12,000	12,000	8,000
Iron	7439-89-6	N	ug/Kg	640,000	12,800,000	---	---	6,700,000	12,000,000	16,000,000	11,000,000	24,000,000	15,000,000
Lead	7439-92-1	---	ug/Kg	---	---	14,000	280,000	7,700	13,000	31,000	14,000	13,000	9,900
Magnesium	7439-95-4	---	ug/Kg	---	---	---	---	590,000	1,000,000	910,000	970,000	1,300,000	1,300,000
Manganese	7439-96-5	N	ug/Kg	57,000	1,140,000	---	---	30,000	61,000	58,000	32,000	52,000	48,000
Mercury	7439-97-6	N	ug/Kg	30	600	100	2,000	---	---	51 J	---	---	---
Nickel	7440-02-0	N	ug/Kg	48,000	960,000	---	---	4,700	9,400	10,000	8,800	9,900	7,400
Potassium	7440-09-7	---	ug/Kg	---	---	---	---	520,000	660,000	780,000	680,000	920,000	780,000
Selenium	7782-49-2	N	ug/Kg	950	19,000	260	5,200	300 J	180 J	450 J	140 J	320 J	---
Silver	7440-22-4	N	ug/Kg	1,600	32,000	---	---	---	---	69 J	---	---	---
Sodium	7440-23-5	---	ug/Kg	---	---	---	---	150,000	810,000	230,000	2,100,000	3,400,000	1,900,000
Thallium	7440-28-0	N	ug/Kg	26	520	140	2,800	77 J	130 J	280	320	260	160 J
Vanadium	7440-62-2	N	ug/Kg	180,000	3,600,000	---	---	19,000	33,000	43,000	49,000	66,000	41,000
Zinc	7440-66-6	N	ug/Kg	680,000	13,600,000	---	---	18,000	33,000	34,000	24,000	35,000	25,000

Table 17
Summary of Phase III Detected Sludge/Sediment Constituents, Natrosol Lagoon
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				Natrosol Lagoon					
								NLSS-1A	NLSS-1B	NLSS-2A	NLSS-2B	NLSS-3A	NLSS-3B
				Risk-Based (ug/kg)		MCL-Based (ug/kg)		5/8/2007	5/8/2007	5/8/2007	5/8/2007	5/8/2007	5/8/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Inorganic, Non-Metals													
Chloride	16887-00-6	---	ug/Kg	---	---	---	---	56,000	1,000,000	620,000	900,000	1,700,000	840,000
Nitrate-Nitrite													
Nitrite as N	14797-65-0	N	ug/Kg	---	---	---	---	---	800 J	---	---	1,000 J	---
Nitrogen													
TKN	---	---	ug/Kg	---	---	---	---	180,000	310,000	330,000	390,000	390,000	40,000 J
TOC	7440-44-0	---	ug/Kg	---	---	---	---	2,400,000	4,700,000	3,900,000	2,600,000	1,700,000	---
Sulfate	14808-79-8	---	ug/Kg	---	---	---	---	2,800,000,000	1,400,000	820,000	1,600,000	2,800,000	720,000

Notes:
ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor
RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.

B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 18
Summary of Phase I Detected Soil Constituents, Sludge Drying Beds
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater SSLs[2] Risk-Based (ug/kg) DAF 1	Protection of Groundwater SSLs[2] Risk-Based (ug/kg) DAF 20	Protection of Groundwater SSLs[2] MCL-Based (ug/kg) DAF 1	Protection of Groundwater SSLs[2] MCL-Based (ug/kg) DAF 20	Maximum Background Concentration[4]	Minimum Background Concentration[4]	Average Background Concentration[5]	RL (ug/kg)	MDL (ug/kg)	SDB-1 I1L190204011 Solid (ug/kg) LDL	SDB-1 Q	SDB-2 I1L190204012 Solid (ug/kg) LDL	SDB-2 Q	SDB-3 I1L190204013 Solid (ug/kg) LDL	SDB-3 Q	SDB-4 I1L190204014 Solid (ug/kg) LDL	SDB-4 Q
Volatile Organic Compounds (VOCs)																			
Acetone	67-64-1	N	4,500	90,000	~	~	~	~	~	20	1.6	**350**	**J**	**160**		**150**		**75**	
Acetonitrile	75-05-8	N	0.026	0.52	~	~	~	~	~			65	R	89	R	150	R	62	R
Acrolein	107-02-8	N	0.0000084	0.000168	~	~	~	~	~			65	R	89	R	150	R	62	R
Allyl alcohol	107-18-6	N	0.037	0.74	~	~	~	~	~			170	R	230	R	390	R	160	R
2-Butanone (MEK)	78-93-3	N	1,500	30,000	~	~	~	~	~	20	1.7	**47**		**18**		<30		**3.3**	**J**
1,2-Dichloroethane (Ethylene dichloride)	107-06-2	C	0.042	1	1.4	28	~	~	~	5	0.088	**7.6**		**4.7**	**J**	**7.4**	**J**	**11**	
1,4-Dioxane	123-91-1	C	0.14	2.8	~	~	~	~	~			650	R	890	R	1500	R	620	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~			260	R*	360	R*	610	R*	250	R*
Ethylene oxide	75-21-8	C	0.0091	0.182	~	~	~	~	~			3900	R	5400	R	9100	R	3700	R
Isobutyl alcohol	78-83-1	N	2,300	46,000	~	~	~	~	~			260	R	360	R	610	R	250	R
Methylene chloride	75-09-2	C	1.2	24	1.3	26	~	~	~	5	0.3	<6.5		<8.9		<15		<6.2	
4-Methyl-2-pentanone (MIBK)	108-10-1	N	450	9,000	~	~	~	~	~	20	0.79	**6.0**	**J**	<18		<30		<12	
Propionitrile	~	~	~	~	~	~	~	~	~			26	R	36	R	61	R	25	R
Toluene	108-88-3	N	1,600	32,000	690	13,800	~	~	~	5	0.67	**9.0**		<8.9		<15		<6.2	
1,1,2-Trichloroethane	79-00-5	C	0.078	2	1.6	32	~	~	~	5	1.2	**1.0**	**J**	<8.9		<15		<6.2	
Propylene oxide	75-56-9	C	0.049	1	~	~	~	~	~	2,500	565	130	R	180	R	300	R	120	R
VOC TICS																			
1,2,4-Trimethylbenzene	95-63-6	N	21	420	~	~	~	~	~	~	~	**2.7**	**J**	~		~		~	
3-Ethyltoluene[3]	620-14-4	~	1,600.00	32,000	690	13,800	~	~	~	~	~	**1.6**	**J**	**1.4**	**J**	**2.1**	**J**	**0.75**	**J**
Acetaldehyde	75-07-0	C	0.45	9	~	~	~	~	~	~	~	~		~		~		~	
Butanal, 3-methyl-[3]	590-86-3	~	3.40	68	~	~	~	~	~	~	~	**7.1**	**J**	~		~		~	
Butanal, isomer[3]	~	~	3.40	68	~	~	~	~	~	~	~	**~**		~		~		~	
C10H16[3]	~	~	6.2	124	~	~	~	~	~	~	~	~		~		~		~	
cis-1,2-Dichloroethene	156-59-2	N	21	420	21	420	~	~	~	~	~	~		~		~		~	
Heptanal[3]	111-71-7	~	3.40	68	~	~	~	~	~	~	~	**8.2**	**J**	~		~		~	
Hexanal[3]	66-25-1	~	3.40	68	~	~	~	~	~	~	~	**100**	**J**	**41**	**J**	~		**64**	**J**
Hexane	110-54-3	N	6,200	124,000	~	~	~	~	~	~	~	**5.2**	**J**	**1.6**	**J**	~		~	
p-Isopropyltoluene[3]	99-87-6	~	1,100.00	22,000	~	~	~	~	~	~	~	~		~		~		~	
Pentanal[3]	110-62-3	~	3.40	68	~	~	~	~	~	~	~	**34**	**J**	~		~		**16**	**J**
Unknown	~	~	~	~	~	~	~	~	~	~	~	**6.4**	**J**	~		~		~	
Unknown	~	~	~	~	~	~	~	~	~	~	~	~		~		~		~	
Appendix IX Semi-Volatile Organic Compounds (SVOCs)																			
Benzo(a)anthracene	56-55-3	C	10	200	~	~	~	~	~	330	35	**170**	**L**	1,100	UL	1,100	UL	840	UL
Benzo(b)fluoranthene	205-99-2	C	35	700	~	~	~	~	~	330	35	**210**	**J**	<1,100		<1,100		<840	
Benzo(k)fluoranthene	207-08-9	C	350	7,000	~	~	~	~	~	330	41	**180**	**J**	<1,100		<1,100		<840	
Benzo(a)pyrene	50-32-8	C	3.5	70	240	4,800	~	~	~	330	33	**140**	**L**	1,100	UL	1,100	UL	840	UL
4-Chloroaniline[3]	~	~	0.14	2.8	~	~						780	R	1,100	R	1,100	R	840	R
Chrysene	218-01-9	C	1,100	22,000	~	~	~	~	~	330	50	**400**	**J**	<1,100		<1,100		<840	
bis(2-Ethylhexyl) phthalate	117-81-7	C	1,100	22,000	1,400	28,000	~	~	~	330	65	<780		<1,100		<1,100		<840	
Fluoranthene	206-44-0	N	160,000	3,200,000	~	~	~	~	~	330	38	**120**	**L**	1,100	UL	1,100	UL	840	UL
Pyrene	129-00-0	N	120,000	2,400,000	~	~	~	~	~	330	57	780	UL	1,100	UL	1,100	UL	840	UL
Alcohols & Glycols																			
2-Butoxyethanol[3]	~	~	750	15,000	~	~	~	~	~			5,800	R	7,800	R	8,200	R	6,300	R
tert-Butyl alcohol[3]	~	~	760	15,200	~	~	~	~	~			5,800	R	7,800	R	8,200	R	6,300	R
Diethylene glycol[3]	~	~	15,000.00	300,000	~	~	~	~	~			29,000	R	39,000	R	41,000	R	31,000	R
di-propylene glycol	~	~	~	~	~	~	~	~	~			29,000	R	39,000	R	41,000	R	31,000	R
Ethanol[3]	~	~	760	15,200	~	~						5,800	R	7,800	R	8,200	R	6,300	R
Ethylene glycol	107-21-1	N	15,000	300,000	~	~	~	~	~			29,000	R	39,000	R	41,000	R	31,000	R
Isopropanol	67-63-0	~	~	~	~	~	~	~	~			5,800	R	7,800	R	8,200	R	6,300	R
Methanol	67-56-1	N	3,700.0	74,000	~	~	~	~	~			5,800	R	7,800	R	8,200	R	6,300	R
Propyl cellosolve	~	~	~	~	~	~	~	~	~			5,800	R	7,800	R	8,200	R	6,300	R
Propylene glycol	57-55-6	N	150,000	3,000,000	~	~	~	~	~			29,000	R	39,000	R	41,000	R	31,000	R

Table 18
Summary of Phase I Detected Soil Constituents, Sludge Drying Beds
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater SSLs[2] Risk-Based (ug/kg) DAF 1	Risk-Based (ug/kg) DAF 20	MCL-Based (ug/kg) DAF 1	MCL-Based (ug/kg) DAF 20	Maximum Background Concentration[4]	Minimum Background Concentration[4]	Average Background Concentration[5]	RL (ug/kg)	MDL (ug/kg)	SDB-5 I1L190204015 Solid (ug/kg) LDL	Q	SDB-6 I1L190204016 Solid (ug/kg) LDL	Q	SDB-7 I1L190204017 Solid (ug/kg) LDL	Q	SDB-8 I1L190204018 Solid (ug/kg) LDL	Q	SDB-9 I1L190204019 Solid (ug/kg) LDL	Q
Volatile Organic Compounds (VOCs)																					
Acetone	67-64-1	N	4,500	90,000	~	~	~	~	~	20	1.6	**190**		**2,300**		**29**	**J**	**160**	**J**	**140**	
Acetonitrile	75-05-8	N	0.026	0.52	~	~	~	~	~			54	R	580	R	57	R	62	R	96	R
Acrolein	107-02-8	N	0.0000084	0.000168	~	~	~	~	~			54	R	580	R	57	R	62	R	96	R
Allyl alcohol	107-18-6	N	0.037	0.74	~	~	~	~	~			140	R	1,500	R	150	R	160	R	250	R
2-Butanone (MEK)	78-93-3	N	1,500	30,000	~	~	~	~	~	20	1.7	**16**	**J**	**260**	**J**	<11		**65**		**18**	**J**
1,2-Dichloroethane (Ethylene dichloride)	107-06-2	C	0.042	1	1.4	28	~	~	~	5	0.088	<5.4		**14**	**J**	**12**		**11**		**12**	
1,4-Dioxane	123-91-1	C	0.14	2.8	~	~	~	~	~			540	R	5800	R	570	R	620	R	960	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~			220	R*	2300	R*	230	R*	250	R*	380	R*
Ethylene oxide	75-21-8	C	0.0091	0.182	~	~	~	~	~			3200	R	35000	R	3400	R	3700	R	5700	R
Isobutyl alcohol	78-83-1	N	2,300	46,000	~	~	~	~	~			220	R	2300	R	230	R	250	R	380	R
Methylene chloride	75-09-2	C	1.2	24	1.3	26	~	~	~	5	0.3	<5.4		**10**	**J**	<5.7		**1.1**	**J**	**2.2**	**J**
4-Methyl-2-pentanone (MIBK)	108-10-1	N	450	9,000	~	~	~	~	~	20	0.79	<11		**68**	**J**	<11		**6.7**	**J**	<19	
Propionitrile	~	~	~	~	~	~	~	~	~			22	R	230	R	23	R	25	R	38	R
Toluene	108-88-3	N	1,600	32,000	690	13,800	~	~	~	5	0.67	<5.4		**17**	**J**	<5.7		**7**		<9.6	
1,1,2-Trichloroethane	79-00-5	C	0.078	2	1.6	32	~	~	~	5	1.2	<5.4		<58		<5.7		**1**	**J**	<9.6	
Propylene oxide	75-56-9	C	0.049	1	~	~	~	~	~	2,500	565	110	R	<1200	R	110	R	120	R	190	R
VOC TICS																					
1,2,4-Trimethylbenzene	95-63-6	N	21	420	~	~	~	~	~	~	~	~		**25**	**J**	~		**1.8**	**J**	~	
3-Ethyltoluene[3]	620-14-4	~	1,600.00	32,000	690	13,800	~	~	~	~	~	**1.0**	**J**	~		**0.55**	**J**	**1.2**	**J**	~	
Acetaldehyde	75-07-0	C	0.45	9	~	~	~	~	~	~	~	**7.3**	**J**	~		~		~		~	
Butanal, 3-methyl-[3]	590-86-3	~	3.40	68	~	~	~	~	~	~	~	~		**~**		~		~		~	
Butanal, isomer[3]	~	~	3.40	68	~	~	~	~	~	~	~	~		**31**	**J**	~		~		~	
C10H16[3]	~	~	6.2	124	~	~	~	~	~	~	~	~		~		~		**71**	**J**	~	
cis-1,2-Dichloroethene	156-59-2	N	21	420	21	420	~	~	~	~	~	~		~		~		~		~	
Heptanal[3]	111-71-7	~	3.40	68	~	~	~	~	~	~	~	**21**	**J**	**31**	**J**	~		**11**	**J**	~	
Hexanal[3]	66-25-1	~	3.40	68	~	~	~	~	~	~	~	**180**	**J**	**390**	**J**	**28**	**J**	**90**	**J**	**23**	**J**
Hexane	110-54-3	N	6,200	124,000	~	~	~	~	~	~	~	**5.4**	**J**	**41**	**J**	~		**4.1**	**J**	**1.0**	**J**
p-Isopropyltoluene[3]	99-87-6	~	1,100.00	22,000	~	~	~	~	~	~	~	~		~		~		**21**	**J**	~	
Pentanal[3]	110-62-3	~	3.40	68	~	~	~	~	~	~	~	**60**	**J**	**120**	**J**	~		**29**	**J**	~	
Unknown	~	~	~	~	~	~	~	~	~	~	~	**9.6**	**J**	~		~		~		~	
Unknown	~	~	~	~	~	~	~	~	~	~	~	**6.6**	**J**	~		~		~		~	
Appendix IX Semi-Volatile Organic Compounds (SVOCs)																					
Benzo(a)anthracene	56-55-3	C	10	200	~	~	~	~	~	330	35	390	UL	3,400	UL	420	UL	390	UL	450	UL
Benzo(b)fluoranthene	205-99-2	C	35	700	~	~	~	~	~	330	35	**53**	**J**	<3,400		<420		<390		<450	
Benzo(k)fluoranthene	207-08-9	C	350	7,000	~	~	~	~	~	330	41	**55**	**J**	<3,400		<420		<390		<450	
Benzo(a)pyrene	50-32-8	C	3.5	70	240	4,800	~	~	~	330	33	**44**	**L**	3,400	UL	420	UL	390	UL	450	UL
4-Chloroaniline[3]	~	~	0.14	2.8	~	~						390	R	3,400	R	420	R	390	R	450	R
Chrysene	218-01-9	C	1,100	22,000	~	~	~	~	~	330	50	**64**	**J**	<3,400		<420		<390		<450	
bis(2-Ethylhexyl) phthalate	117-81-7	C	1,100	22,000	1,400	28,000	~	~	~	330	65	<390		<3,400		**200**	**B**	<390		<450	
Fluoranthene	206-44-0	N	160,000	3,200,000	~	~	~	~	~	330	38	**67**	**L**	3,400	UL	420	UL	390	UL	450	UL
Pyrene	129-00-0	N	120,000	2,400,000	~	~	~	~	~	330	57	**59**	**L**	3,400	UL	420	UL	390	UL	450	UL
Alcohols & Glycols																					
2-Butoxyethanol[3]	~	~	750	15,000	~	~	~	~	~			5,800	R	25,000	R	6,100	R	5,900	R	6,600	R
tert-Butyl alcohol[3]	~	~	760	15,200	~	~	~	~	~			5,800	R	25,000	R	31,000	R	5,900	R	6,600	R
Diethylene glycol[3]	~	~	15,000.00	300,000	~	~	~	~	~			29,000	R	120,000	R	31,000	R	29,000	R	33,000	R
di-propylene glycol	~	~	~	~	~	~	~	~	~			29,000	R	120,000	R	6,100	R	29,000	R	33,000	R
Ethanol[3]	~	~	760	15,200	~	~						5,800	R	25,000	R	6,100	R	5,900	R	6,600	R
Ethylene glycol	107-21-1	N	15,000	300,000	~	~	~	~	~			29,000	R	120,000	R	31,000	R	29,000	R	33,000	R
Isopropanol	67-63-0	~	~	~	~	~	~	~	~			5,800	R	25,000	R	6,100	R	5,900	R	6,600	R
Methanol	67-56-1	N	3,700.0	74,000	~	~	~	~	~			5,800	R	25,000	R	6,100	R	5,900	R	6,600	R
Propyl cellosolve	~	~	~	~	~	~	~	~	~			5,800	R	25,000	R	6,100	R	5,900	R	6,600	R
Propylene glycol	57-55-6	N	150,000	3,000,000	~	~	~	~	~			29,000	R	120,000	R	31,000	R	29,000	R	33,000	R

Table 18
Summary of Phase I Detected Soil Constituents, Sludge Drying Beds
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater SSLs[2] Risk-Based (ug/kg) DAF 1	Risk-Based (ug/kg) DAF 20	MCL-Based (ug/kg) DAF 1	MCL-Based (ug/kg) DAF 20	Maximum Background Concentration[4]	Minimum Background Concentration[4]	Average Background Concentration[5]	RL (ug/kg)	MDL (ug/kg)	SDB-1 I1L190204011 Solid (ug/kg) LDL	Q	SDB-2 I1L190204012 Solid (ug/kg) LDL	Q	SDB-3 I1L190204013 Solid (ug/kg) LDL	Q	SDB-4 I1L190204014 Solid (ug/kg) LDL	Q
TAL Metals																			
Aluminum	7429-90-5	N	55,000,000	1,100,000,000	~	~	18,100,000	7,270,000	10,302,140	20,000	1,100	**13,800,000**	K	**16,100,000**	K	**37,700,000**	K	**25,900,000**	K
Arsenic	7440-38-2	C	1.3	26	290	5,800	8,600	3,700	5,060	1,000	300	**1,800**		**1,100**		**3,500**		**3,800**	
Barium	7440-39-3	N	300,000	6,000,000	82,000	1,640,000	138,000	30,600	89,050	20,000	130	**35,000**		**31,500**		**62,800**		**37,500**	
Beryllium	7440-41-7	N	58,000	1,160,000	3,200	64,000	1,200	160	620	500	46	**360**		**400**		**910**		**690**	
Cadmium	7440-43-9	N	1,400	28,000	380	7,600	~	~	~	200	43	<590		<800		**140**		<640	
Calcium	7440-70-2	~	~	~	~	~	1,080,000	79,400	597,200	500,000	37,000	**1,060,000**		**1,310,000**		**1,160,000**		**2,570,000**	
Chromium	7440-47-3	N	---	---	180,000,000	3,600,000,000	25,000	11,800	15,590	500	380	**28,300**		**28,300**		**52,200**		**32,200**	
Cobalt	7440-48-4	N	490	9,800	~	~	14,400	1,900	5,520	5,000	150	**2,600**		**3,100**		**7,100**		**6,500**	
Copper	7440-50-8	N	51,000	1,020,000	46,000	920,000	18,400	7,600	12,410	2,500	270	**12,800**		**15,300**		**22,900**		**12,400**	
Iron	7439-89-6	N	640,000	12,800,000	~	~	34,600,000	13,900,000	20,185,710	10,000	6,600	**13,200,000**	K	**10,900,000**	K	**28,600,000**	K	**25,200,000**	K
Lead	7439-92-1	~	~	~	14,000	280,000	189,000	13,000	31,660	300	240	**14,000**	J	**13,500**	J	**36,300**	J	**20,100**	J
Magnesium	7439-95-4	~	~	~	~	~	1,550,000	149,000	960,860	500,000	12,000	**721,000**		**936,000**		**1,290,000**		**1,570,000**	
Manganese	7439-96-5	N	57,000	1,140,000	~	~	1,610,000	11,800	546,410	1,500	150	**65,700**		**43,800**		**48,400**		**67,300**	
Mercury	7439-97-6	N	30	600	100	2,000	~	~	~	100	8	**72**	K	**69**	K	**140**	K	**44**	K
Nickel	7440-02-0	N	48,000	960,000	~	~	15,300	3,100	6,470	4,000	270	**6,100**	K	**7,800**	K	**15,000**	K	**9,800**	K
Potassium	7440-09-7	~	~	~	~	~	1,230,000	323,000	785,640	500,000	5,100	**385,000**		**670,000**		**877,000**		**692,000**	
Selenium	7782-49-2	N	950	19,000	260	5,200	~	~	~	25,000	310	<590		<800		<870		<640	
Sodium	7440-23-5	~	~	~	~	~	~	~	~	500,000	50,000	**58,300**		<797,000		<867,000		<639,000	
Vanadium	7440-62-2	N	180,000	3,600,000	~	~	39,600	21,400	28,040	5,000	130	**35,600**	K	**34,800**	K	**76,400**	K	**48,600**	K
Zinc	7440-66-6	N	680,000	13,600,000	~	~	95,500	11,400	11,400	2,000	1,200	**63,600**		**63,500**		**141,000**		**39,500**	
Additional Inorganic Parameters																			
Chloride	Q138	~	~	~	~	~	~	~	~	30	~	**19,700**	J	**17,500**	J	**25,100**	J	**9,900**	B J
Nitrate	14797-55-8	N	~	~	~	~	~	~	~	1	~	**14,500**		**40,300**		**17,500**		**2,600**	B

Notes:

ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor
RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.

[4] Background maximum/minimum concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

[5] Average background concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA
B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration.
K = The positive result for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.
L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.
R = The results for this compound/analyte is unusable. The analyte may or may not be present.
R* = Indicates the compound is suspected; however, a manual spectural search was performed to determine the presence of said compound. It was not detected in the samples.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 18
Summary of Phase I Detected Soil Constituents, Sludge Drying Beds
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater SSLs[2] Risk-Based (ug/kg) DAF 1	Risk-Based (ug/kg) DAF 20	MCL-Based (ug/kg) DAF 1	MCL-Based (ug/kg) DAF 20	Maximum Background Concentration[4]	Minimum Background Concentration[4]	Average Background Concentration[5]	RL (ug/kg)	MDL (ug/kg)	SDB-5 I1L190204015 Solid (ug/kg) LDL	Q	SDB-6 I1L190204016 Solid (ug/kg) LDL	Q	SDB-7 I1L190204017 Solid (ug/kg) LDL	Q	SDB-8 I1L190204018 Solid (ug/kg) LDL	Q	SDB-9 I1L190204019 Solid (ug/kg) LDL	Q
TAL Metals																					
Aluminum	7429-90-5	N	55,000,000	1,100,000,000	~	~	18,100,000	7,270,000	10,302,140	20,000	1,100	**10,200,000**	**K**	**21,300,000**	**K**	**26,000,000**	**K**	**16,200,000**	**K**	**22,700,000**	**K**
Arsenic	7440-38-2	C	1.3	26	290	5,800	8,600	3,700	5,060	1,000	300	**2,500**		**3,200**		**2,900**		**1,600**	**J**	**1,200**	**J**
Barium	7440-39-3	N	300,000	6,000,000	82,000	1,640,000	138,000	30,600	89,050	20,000	130	**58,900**		**58,900**		**32,200**		**60,400**		**55,800**	
Beryllium	7440-41-7	N	58,000	1,160,000	3,200	64,000	1,200	160	620	500	46	**750**		**750**		**710**		**690**		**650**	
Cadmium	7440-43-9	N	1,400	28,000	380	7,600	~	~	~	200	43	<590		<2,600		<640		**140**		<680	
Calcium	7440-70-2	~	~	~	~	~	1,080,000	79,400	597,200	500,000	37,000	**1,620,000**		**1,580,000**		**1,360,000**		**2,120,000**	**J**	**727,000**	**J**
Chromium	7440-47-3	N	---	---	180,000,000	3,600,000,000	25,000	11,800	15,590	500	380	**10,500**		**27,800**		**33,100**		**21,700**	**J**	**31,800**	**J**
Cobalt	7440-48-4	N	490	9,800	~	~	14,400	1,900	5,520	5,000	150	**4,500**		**6,100**		**5,700**		**7,100**		**5,800**	
Copper	7440-50-8	N	51,000	1,020,000	46,000	920,000	18,400	7,600	12,410	2,500	270	**7,800**		**23,300**		**13,000**		**14,500**	**K**	**12,900**	**K**
Iron	7439-89-6	N	640,000	12,800,000	~	~	34,600,000	13,900,000	20,185,710	10,000	6,600	**7,640,000**	**K**	**19,100,000**	**K**	**19,500,000**	**K**	**11,700,000**	**L**	**16,500,000**	**L**
Lead	7439-92-1	~	~	~	14,000	280,000	189,000	13,000	31,660	300	240	**48,700**	**J**	**23,000**	**J**	**14,500**		**42,800**		**15,500**	
Magnesium	7439-95-4	~	~	~	~	~	1,550,000	149,000	960,860	500,000	12,000	**857,000**		**970,000**		**1,350,000**		**899,000**	**J**	**1,090,000**	**J**
Manganese	7439-96-5	N	57,000	1,140,000	~	~	1,610,000	11,800	546,410	1,500	150	**299,000**		**51,800**		**26,300**		**289,000**	**L**	**64,300**	**L**
Mercury	7439-97-6	N	30	600	100	2,000	~	~	~	100	8	**29**	**K**	**110**	**K**	**25**	**K**	**40**	**K**	**36**	**K**
Nickel	7440-02-0	N	48,000	960,000	~	~	15,300	3,100	6,470	4,000	270	**4,800**	**K**	**13,800**	**K**	**9,000**	**K**	**8,700**	**L**	**9,700**	**L**
Potassium	7440-09-7	~	~	~	~	~	1,230,000	323,000	785,640	500,000	5,100	**465,000**		**912,000**		**613,000**		**619,000**		**687,000**	
Selenium	7782-49-2	N	950	19,000	260	5,200	~	~	~	25,000	310	<590		<2,600		<640		**810**		<680	
Sodium	7440-23-5	~	~	~	~	~	~	~	~	500,000	50,000	<594,000		<2,560,000		**58,600**		<591,000		<678,000	
Vanadium	7440-62-2	N	180,000	3,600,000	~	~	39,600	21,400	28,040	5,000	130	**18,300**	**K**	**54,900**	**K**	**57,400**	**K**	**37,300**		**45,800**	
Zinc	7440-66-6	N	680,000	13,600,000	~	~	95,500	11,400	11,400	2,000	1,200	**49,000**		**102,000**		**29,400**		**88,900**		**45,000**	
Additional Inorganic Parameters																					
Chloride	Q138	~	~	~	~	~	~	~	~	30	~	**10,800**	**B J**	**104,000**	**J**	**12,800**	**J**	**12,700**	**J**	**6,200**	**B J**
Nitrate	14797-55-8	N	~	~	~	~	~	~	~	1	~	**5,700**	**B**	**8,700**	**B**	**2,600**	**B**	**17,600**		**6,900**	

Notes:

ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor
RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.

[4] Background maximum/minimum concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

[5] Average background concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration.
K = The positive result for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.
L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.
R = The results for this compound/analyte is unusable. The analyte may or may not be present.
R* = Indicates the compound is suspected; however, a manual spectural search was performed to determine the presence of said compound. It was not detected in the samples.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 19
Summary of Phase III Detected Soil Constituents, Sludge Drying Beds
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS	(C/N)[1]	Unit	Protection of Groundwater SSLs[2]				SDB									
								SDB-1	SDB-2 DUP (Blind Dup	SDB-2	SDB-3	SDB-4	SDB-5	SDB-6	SDB-7	SDB-8	SDB-9
				Risk-Based (ug/kg)		MCL-Based		3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Semivolatile Organic Compounds-TIC																	
.gamma.-Sitosterol	83-47-6	---	ug/Kg	---	---	---	---	---	---	---	---	340 JN	---	---	---	---	---
Nonadecane[3]	629-92-5	---	ug/Kg	6,200	124,000	---	---	---	---	---	---	200 JN	---	---	---	---	---

Notes:
ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor
RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.
JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate

Table 20
Summary of Phase I Detected Soil Constituents, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater Soil Screening Levels[2] Risk-Based (ug/kg) DAF-1	Risk-Based (ug/kg) DAF-20	MCL-Based (ug/kg) DAF-1	MCL-Based (ug/kg) DAF-20	EPA SSLs DAF 20 (ug/kg)	Site-Specific SSLs (ug/kg)[4]	Maximum Background Concentration[5]	Minimum Background Concentration[5]	Average Background Concentration[6]	RL (ug/kg)	MDL (ug/kg)	VFSP-1 Solid (ug/kg) LDL	VFSP-1 Q	VFSP-DUP (VFSP-1) Solid (ug/kg) LDL	VFSP-DUP (VFSP-1) Q	VFSP-2 Solid (ug/kg) LDL	VFSP-2 Q
Volatile Organic Compounds (VOCs)																			
Acetone	67-64-1	N	4,500	90,000	~	~	22,000	290,000	~	~	~	20	1.6	3,100		2,600		1,400	J
Acetonitrile	75-05-8	~	0.026	0.52	~	~	~	~	~	~	~	~	~	380	R	360	R	240	R
Acrolein	107-02-8	~	0.0000084	0.000168	~	~	~	~	~	~	~	~	~	380	R	360	R	240	R
Allyl alcohol	107-18-6	~	0.037	0.74	~	~	~	~	~	~	~	~	~	1000	R	940	R	630	R
2-Butanone (MEK)	78-93-3	N	1,500	30,000	~	~	29,000	~	~	~	~	20	1.7	630		1,000		380	
Carbon disulfide	75-15-0	N	310	6,200	~	~	19,000	~	~	~	~	5	0.083	16	J	32	J	10	J
1,4-Dioxane	123-91-1	C	0.14	2.8	~	~	~	~	~	~	~	~	~	3800	R	3600	R	2400	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	1500	R*	1400	R*	980	R*
Ethylene oxide	75-21-8	C	0.0091	0.182	~	~	~	~	~	~	~	~	~	23000	R	22000	R	15000	R
Isobutyl alcohol	78-83-1	N	2,300	46,000	~	~	~	~	~	~	~	~	~	<1500		1400	R	980	R
Methacrylonitrile	126-98-7	N	0.24	4.8000	~	~	~	~	~	~	~	~	~	150	R	~		~	
Propionitrile	~	~	~	~	~	~	~	~	~	~	~	~	~	150	R	140	R	98	R
Propylene oxide	75-56-9	C	0.049	0.98	~	~	~	~	~	~	~	2,500	565	770	R	720	R	490	R
1,2,3-Trichloropropane	96-18-4	C	0.00031	0.0062	~	~	~	~	~	~	~	~	~	~		~		~	
VOC TICS																			
1,3,5-Trimethylbenzene	108-67-8	N	520	10,400	~	~	~	~	~	~	~	~	~	19	J	25	J	19	J
1,3-Dichlorobenzene[3]	541-73-1	~	0.41	8.2	72	1,440	290	~	~	~	~	~	~	23	J	19	J	13	J
1,4-Dichlorobenzene	106-46-7	C	0.41	8.2	72	1,440	4.2	670	~	~	~	~	~	~		~		~	
Hexane	110-54-3	N	6,200	124,000	~	~	5,800	~	~	~	~	~	~	3.7	J	6.3	J	2.8	J
Unknown	~	~	~	~	~	~	~	~	~	~	~	~	~	~		~		~	
Unknown	~	~	~	~	~	~	~	~	~	~	~	~	~	~		~		25	J
Semi-Volatile Organic Compounds																			
bis(2-Ethylhexyl) phthalate	117-81-7	C	1,100	22,000	1,400	28,000	2,900,000	~	~	~	~	330	65	<25,000		<4,800		<40,000	
4-Chloroaniline[3]	~	~	0.14	2.8	~	~	~	~	~	~	~	~	~	~		4800	R	~	
Alcohols & Glycols																			
2-Butoxyethanol[3]	~	~	750	15,000	~	~	~	~	~	~	~	~	~	710,000	R	680,000	R	120,000	R
tert-Butyl alcohol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	710,000	R	680,000	R	120,000	R
Diethylene glycol[3]	~	~	15,000	300,000	~	~	~	~	~	~	~	~	~	3,600,000	R	3,400,000	R	2,100,000	R
di-propylene glycol	~	~	~	~	~	~	~	~	~	~	~	~	~	3,600,000	R	3,400,000	R	2,100,000	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	710,000	R	680,000	R	420,000	R
Ethylene glycol	107-21-1	N	15,000	300,000	~	~	~	~	~	~	~	~	~	3,600,000	R	3,400,000	R	2,100,000	R
Isopropanol	67-63-0	~	~	~	~	~	~	~	~	~	~	~	~	710,000	R	680,000	R	420,000	R
Methanol	67-56-1	N	3,700	74,000	~	~	~	~	~	~	~	~	~	710,000	R	680,000	R	420,000	R
Propyl cellosolve	~	~	~	~	~	~	~	~	~	~	~	~	~	710,000	R	680,000	R	420,000	R
Propylene glycol	57-55-6	N	150,000	3,000,000	~	~	~	~	~	~	~	~	~	3,600,000	R	3,400,000	R	2,100,000	R

Table 20
Summary of Phase I Detected Soil Constituents, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater Soil Screening Levels[2] Risk-Based (ug/kg) DAF-1	Risk-Based (ug/kg) DAF-20	MCL-Based (ug/kg) DAF-1	MCL-Based (ug/kg) DAF-20	EPA SSLs DAF 20 (ug/kg)	Site-Specific SSLs (ug/kg)[4]	Maximum Background Concentration[5]	Minimum Background Concentration[5]	Average Background Concentration[6]	RL (ug/kg)	MDL (ug/kg)	VFSP-3 Solid (ug/kg) LDL	VFSP-3 Q	VFSP-4 Solid (ug/kg) LDL	VFSP-4 Q	VFSP-5 Solid (ug/kg) LDL	VFSP-5 Q
Volatile Organic Compounds (VOCs)																			
Acetone	67-64-1	N	4,500	90,000	~	~	22,000	290,000	~	~	~	20	1.6	1,600		930		1,500	
Acetonitrile	75-05-8	~	0.026	0.52	~	~	~	~	~	~	~	~	~	540	R	320	R	380	R
Acrolein	107-02-8	~	0.0000084	0.000168	~	~	~	~	~	~	~	~	~	540	R	320	R	380	R
Allyl alcohol	107-18-6	~	0.037	0.74	~	~	~	~	~	~	~	~	~	1,400	R	840	R	1,000	R
2-Butanone (MEK)	78-93-3	N	1,500	30,000	~	~	29,000	~	~	~	~	20	1.7	440		270		400	
Carbon disulfide	75-15-0	N	310	6,200	~	~	19,000	~	~	~	~	5	0.083	<54		<32		<38	
1,4-Dioxane	123-91-1	C	0.14	2.8	~	~	~	~	~	~	~	~	~	5400	R	3200	R	3800	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	2200	R*	1300	R*	1500	R*
Ethylene oxide	75-21-8	C	0.0091	0.182	~	~	~	~	~	~	~	~	~	33000	R	19000	R	23000	R
Isobutyl alcohol	78-83-1	N	2,300	46,000	~	~	~	~	~	~	~	~	~	2200	R	1300	R	1500	R
Methacrylonitrile	126-98-7	N	0.24	4.8000	~	~	~	~	~	~	~	~	~	~		~		~	
Propionitrile	~	~	~	~	~	~	~	~	~	~	~	~	~	220	R	130	R	150	R
Propylene oxide	75-56-9	C	0.049	0.98	~	~	~	~	~	~	~	2,500	565	1,100	R	650	R	770	R
1,2,3-Trichloropropane	96-18-4	C	0.00031	0.0062	~	~	~	~	~	~	~	~	~	~		~		~	
VOC TICS																			
1,3,5-Trimethylbenzene	108-67-8	N	520	10,400	~	~	~	~	~	~	~	~	~	25	J	15	J	29	J
1,3-Dichlorobenzene[3]	541-73-1	~	0.41	8.2	72	1,440	290	~	~	~	~	~	~	~		~		43	J
1,4-Dichlorobenzene	106-46-7	C	0.41	8.2	72	1,440	4.2	670	~	~	~	~	~	~		~		6.7	J
Hexane	110-54-3	N	6,200	124,000	~	~	5,800	~	~	~	~	~	~	~		~		~	
Unknown	~	~	~	~	~	~	~	~	~	~	~	~	~	~		~		~	
Unknown	~	~	~	~	~	~	~	~	~	~	~	~	~	~		~		~	
Semi-Volatile Organic Compounds																			
bis(2-Ethylhexyl) phthalate	117-81-7	C	1,100	22,000	1,400	28,000	2,900,000	~	~	~	~	330	65	<90,000		<22,000		<26,000	
4-Chloroaniline[3]	~	~	0.14	2.8	~	~	~	~	~	~	~	~	~	~		~		~	
Alcohols & Glycols																			
2-Butoxyethanol[3]	~	~	750	15,000	~	~	~	~	~	~	~	~	~	960,000	R	610,000	R	770,000	R
tert-Butyl alcohol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	960,000	R	610,000	R	770,000	R
Diethylene glycol[3]	~	~	15,000	300,000	~	~	~	~	~	~	~	~	~	4,800,000	R	3,000,000	R	3,800,000	R
di-propylene glycol	~	~	~	~	~	~	~	~	~	~	~	~	~	4,800,000	R	3,000,000	R	3,800,000	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	960,000	R	610,000	R	770,000	R
Ethylene glycol	107-21-1	N	15,000	300,000	~	~	~	~	~	~	~	~	~	4,800,000	R	3,000,000	R	3,800,000	R
Isopropanol	67-63-0	~	~	~	~	~	~	~	~	~	~	~	~	960,000	R	610,000	R	770,000	R
Methanol	67-56-1	N	3,700	74,000	~	~	~	~	~	~	~	~	~	960,000	R	610,000	R	770,000	R
Propyl cellosolve	~	~	~	~	~	~	~	~	~	~	~	~	~	960,000	R	610,000	R	770,000	R
Propylene glycol	57-55-6	N	150,000	3,000,000	~	~	~	~	~	~	~	~	~	4,800,000	R	3,000,000	R	3,800,000	R

Table 20
Summary of Phase I Detected Soil Constituents, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater Soil Screening Levels[2] Risk-Based (ug/kg) DAF-1	Risk-Based (ug/kg) DAF-20	MCL-Based (ug/kg) DAF-1	MCL-Based (ug/kg) DAF-20	EPA SSLs DAF 20 (ug/kg)	Site-Specific SSLs (ug/kg)[4]	Maximum Background Concentration[5]	Minimum Background Concentration[5]	Average Background Concentration[6]	RL (ug/kg)	MDL (ug/kg)	VFSP-6 Solid (ug/kg) LDL	VFSP-6 Q	VFSP-7 Solid (ug/kg) LDL	VFSP-7 Q	VFSP-8 Solid (ug/kg) LDL	VFSP-8 Q	VFSP-9 Solid (ug/kg) LDL	VFSP-9 Q
Volatile Organic Compounds (VOCs)																					
Acetone	67-64-1	N	4,500	90,000	~	~	22,000	290,000	~	~	~	20	1.6	1,100		1,400		2,700		1,000	
Acetonitrile	75-05-8	~	0.026	0.52	~	~	~	~	~	~	~	~	~	280	R	410	R	450	R	360	R
Acrolein	107-02-8	~	0.0000084	0.000168	~	~	~	~	~	~	~	~	~	280	R	410	R	450	R	360	R
Allyl alcohol	107-18-6	~	0.037	0.74	~	~	~	~	~	~	~	~	~	720	R	1,100	R	1,200	R	930	R
2-Butanone (MEK)	78-93-3	N	1,500	30,000	~	~	29,000	~	~	~	~	20	1.7	350		420		910		310	
Carbon disulfide	75-15-0	N	310	6,200	~	~	19,000	~	~	~	~	5	0.083	14	J	16	J	31	J	<36	
1,4-Dioxane	123-91-1	C	0.14	2.8	~	~	~	~	~	~	~	~	~	2800	R	4100	R	4500	R	3600	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	1100	R*	1600	R*	1800	R*	1400	R*
Ethylene oxide	75-21-8	C	0.0091	0.182	~	~	~	~	~	~	~	~	~	17000	R	25000	R	27000	R	21000	R
Isobutyl alcohol	78-83-1	N	2,300	46,000	~	~	~	~	~	~	~	~	~	1100	R	1600	R	1800	R	1400	R
Methacrylonitrile	126-98-7	N	0.24	4.8000	~	~	~	~	~	~	~	~	~	~		~		~		~	
Propionitrile	~	~	~	~	~	~	~	~	~	~	~	~	~	110	R	160	R	180	R	140	R
Propylene oxide	75-56-9	C	0.049	0.98	~	~	~	~	~	~	~	2,500	565	550	R	820	R	900	R	710	R
1,2,3-Trichloropropane	96-18-4	C	0.00031	0.0062	~	~	~	~	~	~	~	~	~	~		~		45	R	~	
VOC TICS																					
1,3,5-Trimethylbenzene	108-67-8	N	520	10,400	~	~	~	~	~	~	~	~	~	14	J	18	Q	33	Q	22	J
1,3-Dichlorobenzene[3]	541-73-1	~	0.41	8.2	72	1,440	290	~	~	~	~	~	~	15	J	72	Q	100	Q	~	
1,4-Dichlorobenzene	106-46-7	C	0.41	8.2	72	1,440	4.2	670	~	~	~	~	~	~		16	Q	15	Q	~	
Hexane	110-54-3	N	6,200	124,000	~	~	5,800	~	~	~	~	~	~	3.8	J	3.9	Q	8.1	Q	~	
Unknown	~	~	~	~	~	~	~	~	~	~	~	~	~	~		~		~		45	J
Unknown	~	~	~	~	~	~	~	~	~	~	~	~	~	~		~		~		~	
Semi-Volatile Organic Compounds																					
bis(2-Ethylhexyl) phthalate	117-81-7	C	1,100	22,000	1,400	28,000	2,900,000	~	~	~	~	330	65	<3,600		<5,400		<5,900		4,400	B
4-Chloroaniline[3]	~	~	0.14	2.8	~	~	~	~	~	~	~	~	~	3600	R	5400	R	5900	R	4,700	R
Alcohols & Glycols																					
2-Butoxyethanol[3]	~	~	750	15,000	~	~	~	~	~	~	~	~	~	460,000	R	690,000	R	760,000	R	630,000	R
tert-Butyl alcohol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	460,000	R	690,000	R	760,000	R	630,000	R
Diethylene glycol[3]	~	~	15,000	300,000	~	~	~	~	~	~	~	~	~	2,300,000	R	3,500,000	R	3,800,000	R	3,100,000	R
di-propylene glycol	~	~	~	~	~	~	~	~	~	~	~	~	~	2,300,000	R	3,500,000	R	3,800,000	R	3,100,000	R
Ethanol[3]	~	~	760	15,200	~	~	~	~	~	~	~	~	~	460,000	R	690,000	R	760,000	R	630,000	R
Ethylene glycol	107-21-1	N	15,000	300,000	~	~	~	~	~	~	~	~	~	2,300,000	R	3,500,000	R	3,800,000	R	3,100,000	R
Isopropanol	67-63-0	~	~	~	~	~	~	~	~	~	~	~	~	460,000	R	690,000	R	760,000	R	630,000	R
Methanol	67-56-1	N	3,700	74,000	~	~	~	~	~	~	~	~	~	460,000	R	690,000	R	760,000	R	630,000	R
Propyl cellosolve	~	~	~	~	~	~	~	~	~	~	~	~	~	460,000	R	690,000	R	760,000	R	630,000	R
Propylene glycol	57-55-6	N	150,000	3,000,000	~	~	~	~	~	~	~	~	~	2,300,000	R	3,500,000	R	3,800,000	R	3,100,000	R

Table 20
Summary of Phase I Detected Soil Constituents, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater Soil Screening Levels[2] Risk-Based (ug/kg) DAF-1	Risk-Based (ug/kg) DAF-20	MCL-Based (ug/kg) DAF-1	MCL-Based (ug/kg) DAF-20	EPA SSLs DAF 20 (ug/kg)	Site-Specific SSLs (ug/kg)[4]	Maximum Background Concentration[5]	Minimum Background Concentration[5]	Average Background Concentration[6]	RL (ug/kg)	MDL (ug/kg)	VFSP-1 Solid (ug/kg) LDL	Q	VFSP-DUP (VFSP-1) Solid (ug/kg) LDL	Q	VFSP-2 Solid (ug/kg) LDL	Q
TAL Metals																			
Aluminum	7429-90-5	N	55,000,000	1,100,000,000	~	~	~	~	18,100,000	7,270,000	10,302,140	20,000	1,100	9,140,000	K	5,060,000	K	11,200,000	K
Arsenic	7440-38-2	C	1.3	26	290	5,800	26	~	8,600	3,700	5,060	1,000	300	9,600		7,600		7,000	
Barium	7440-39-3	N	300,000	6,000,000	82,000	1,640,000	6,000,000	~	138,000	30,600	89,050	20,000	130	92,700		94,400		54,800	
Beryllium	7440-41-7	N	58,000	1,160,000	3,200	64,000	1,200,000	~	1,200	160	620	500	46	910		1,200		520	
Cadmium	7440-43-9	N	1,400	28,000	380	7,600	55,000	~	~	~	~	200	43	3,500		3,600		3,500	
Calcium	7440-70-2	~	~	~	~	~	~	~	1,080,000	79,400	597,200	500,000	37,000	6,610,000		5,810,000		4,750,000	
Chromium	7440-47-3	N	---	---	180,000,000	3,600,000,000	2,000,000,000,000	~	25,000	11,800	15,590	500	380	187,000		142,000		136,000	
Cobalt	7440-48-4	N	490	9,800	~	~	~	~	14,400	1,900	5,520	5,000	150	17,100		11,200		6,900	
Copper	7440-50-8	N	51,000	1,020,000	46,000	920,000	11,000,000	~	18,400	7,600	12,410	2,500	270	236,000		218,000		208,000	
Iron	7439-89-6	N	640,000	12,800,000	~	~	~	~	34,600,000	13,900,000	20,185,710	10,000	6,600	129,000,000	K	96,300,000	K	65,800,000	K
Lead	7439-92-1	~	~	~	14,000	280,000	~	~	189,000	13,000	31,660	300	240	159,000	J	167,000	J	98,300	J
Magnesium	7439-95-4	~	~	~	~	~	~	~	1,550,000	149,000	960,860	500,000	12,000	1,610,000		980,000		1,600,000	
Manganese	7439-96-5	N	57,000	1,140,000	~	~	950,000	~	1,610,000	11,800	546,410	1,500	150	591,000		392,000		308,000	
Mercury	7439-97-6	N	30	600	100	2,000	~	~	~	~	~	100	8	470	K	520	K	380	K
Nickel	7440-02-0	N	48,000	960,000	~	~	~	~	15,300	3,100	6,470	4,000	270	93,700	K	78,500	K	51,100	K
Potassium	7440-09-7	~	~	~	~	~	~	~	1,230,000	323,000	785,640	500,000	5,100	364,000	B	191,000	B	516,000	
Selenium	7782-49-2	N	950	19,000	260	5,200	19,000	~	~	~	~	25,000	310	2,700		3,400		2,100	
Vanadium	7440-62-2	N	180,000	3,600,000	~	~	730,000	~	39,600	21,400	28,040	5,000	130	38,200	K	28,200	K	38,700	K
Zinc	7440-66-6	N	680,000	13,600,000	~	~	14,000,000	~	95,500	11,400	11,400	2,000	1,200	3,640,000		3,740,000		4,920,000	
Additional Inorganic Parameters																			
Chloride	Q138	~	~	~	~	~	~	~	~	~	~	30	~	63,300	B J	54,300	B J	32,400	B J
Nitrate	14797-55-8	N	~	~	~	~	~	~	~	~	~	1	~	<38,500		12,400	B	8,700	B
Percent Solids	Q1082	~	~	~	~	~	~	~	~	~	~	~	~	13.0%		13.8%		20.5%	
Sulfate	Q605	~	~	~	~	~	~	~	~	~	~	10	~	8,040,000	J	11,800,000	J	4,490,000	J
Total Kjeldahl Nitrogen	Q483	~	~	~	~	~	~	~	~	~	~	50	44.2	39,200,000		33,300,000		20,400,000	
Total Organic Carbon	7440-44-0	~	~	~	~	~	~	~	~	~	~	100	100	283,000,000		484,000,000		52,500,000	

Notes:

ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.

[4] Site specific SSLs are calculated using USEPA Superfund calculator and site-specific values

[5] Background maximum/minimum concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

[6] Average background concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
K = The positive result for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.
Q = The result was quantitated against the response factor of a calibration method
R = The results for this compound/analyte is unusable. The analyte may or may not be present.
R* = Indicates the compound is suspected; however, a manual spectural search was performed to determine the presence of said compound. It was not detected in the samples.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 20
Summary of Phase I Detected Soil Constituents, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater Soil Screening Levels[2] Risk-Based (ug/kg) DAF-1	Risk-Based (ug/kg) DAF-20	MCL-Based (ug/kg) DAF-1	MCL-Based (ug/kg) DAF-20	EPA SSLs DAF 20 (ug/kg)	Site-Specific SSLs (ug/kg)[4]	Maximum Background Concentration[5]	Minimum Background Concentration[5]	Average Background Concentration[6]	RL (ug/kg)	MDL (ug/kg)	VFSP-3 Solid (ug/kg) LDL	Q	VFSP-4 Solid (ug/kg) LDL	Q	VFSP-5 Solid (ug/kg) LDL	Q
TAL Metals																			
Aluminum	7429-90-5	N	55,000,000	1,100,000,000	~	~	~	~	18,100,000	7,270,000	10,302,140	20,000	1,100	20,600,000	K	21,100,000	K	11,400,000	K
Arsenic	7440-38-2	C	1.3	26	290	5,800	26	~	8,600	3,700	5,060	1,000	300	7,300		8,800		9,100	
Barium	7440-39-3	N	300,000	6,000,000	82,000	1,640,000	6,000,000	~	138,000	30,600	89,050	20,000	130	196,000		79,900		137,000	
Beryllium	7440-41-7	N	58,000	1,160,000	3,200	64,000	1,200,000	~	1,200	160	620	500	46	2,000		1,400		850	
Cadmium	7440-43-9	N	1,400	28,000	380	7,600	55,000	~	~	~	~	200	43	5,900		5,700		4,000	
Calcium	7440-70-2	~	~	~	~	~	~	~	1,080,000	79,400	597,200	500,000	37,000	8,570,000		6,240,000		7,600,000	
Chromium	7440-47-3	N	---	---	180,000,000	3,600,000,000	2,000,000,000,000	~	25,000	11,800	15,590	500	380	104,000		205,000		162,000	
Cobalt	7440-48-4	N	490	9,800	~	~	~	~	14,400	1,900	5,520	5,000	150	21,700		25,600		9,300	
Copper	7440-50-8	N	51,000	1,020,000	46,000	920,000	11,000,000	~	18,400	7,600	12,410	2,500	270	232,000		292,000		233,000	
Iron	7439-89-6	N	640,000	12,800,000	~	~	~	~	34,600,000	13,900,000	20,185,710	10,000	6,600	40,500,000	K	99,100,000	K	69,000,000	K
Lead	7439-92-1	~	~	~	14,000	280,000	~	~	189,000	13,000	31,660	300	240	161,000	J	144,000	J	115,000	J
Magnesium	7439-95-4	~	~	~	~	~	~	~	1,550,000	149,000	960,860	500,000	12,000	1,870,000		1,770,000		1,780,000	
Manganese	7439-96-5	N	57,000	1,140,000	~	~	950,000	~	1,610,000	11,800	546,410	1,500	150	263,000		424,000		346,000	
Mercury	7439-97-6	N	30	600	100	2,000	~	~	~	~	~	100	8	510	K	410	K	640	K
Nickel	7440-02-0	N	48,000	960,000	~	~	~	~	15,300	3,100	6,470	4,000	270	95,800	K	111,000	K	69,700	K
Potassium	7440-09-7	~	~	~	~	~	~	~	1,230,000	323,000	785,640	500,000	5,100	1,060,000		810,000		527,000	
Selenium	7782-49-2	N	950	19,000	260	5,200	19,000	~	~	~	~	25,000	310	<5,500		<3,300		<3,900	
Vanadium	7440-62-2	N	180,000	3,600,000	~	~	730,000	~	39,600	21,400	28,040	5,000	130	104,000	K	58,000	K	46,300	K
Zinc	7440-66-6	N	680,000	13,600,000	~	~	14,000,000	~	95,500	11,400	11,400	2,000	1,200	9,240,000		11,200,000		4,440,000	
Additional Inorganic Parameters																			
Chloride	Q138	~	~	~	~	~	~	~	~	~	~	30	~	105,000	B J	46,300	B J	56,200	B J
Nitrate	14797-55-8	N	~	~	~	~	~	~	~	~	~	1	~	<54,800		<32,700		14,500	B
Percent Solids	Q1082	~	~	~	~	~	~	~	~	~	~	~	~	9.1%		15.3%		12.8%	
Sulfate	Q605	~	~	~	~	~	~	~	~	~	~	10	~	12,300,000	J	7,280,000	J	5,390,000	J
Total Kjeldahl Nitrogen	Q483	~	~	~	~	~	~	~	~	~	~	50	44.2	34,200,000		18,500,000		38,200,000	
Total Organic Carbon	7440-44-0	~	~	~	~	~	~	~	~	~	~	100	100	387,000,000		207,000,000		68,600,000	

Notes:

ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.

[4] Site specific SSLs are calculated using USEPA Superfund calculator and site-specific values

[5] Background maximum/minimum concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

[6] Average background concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
J = The positive result for this analyte is a quantitative estimate
K = The positive result for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.
Q = The result was quantitated against the response factor of a calibration method
R = The results for this compound/analyte is unusable. The analyte may or may not be present.
R* = Indicates the compound is suspected; however, a manual spectural search was performed to determine the presence of said compound. It was not detected in the samples.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 20
Summary of Phase I Detected Soil Constituents, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS Number	(C/N)[1]	Protection of Groundwater Soil Screening Levels[2] Risk-Based (ug/kg) DAF-1	Risk-Based (ug/kg) DAF-20	MCL-Based (ug/kg) DAF-1	MCL-Based (ug/kg) DAF-20	EPA SSLs DAF 20 (ug/kg)	Site-Specific SSLs (ug/kg)[4]	Maximum Background Concentration[5]	Minimum Background Concentration[5]	Average Background Concentration[6]	RL (ug/kg)	MDL (ug/kg)	VFSP-6 Solid (ug/kg) LDL	Q	VFSP-7 Solid (ug/kg) LDL	Q	VFSP-8 Solid (ug/kg) LDL	Q	VFSP-9 Solid (ug/kg) LDL	Q
TAL Metals																					
Aluminum	7429-90-5	N	55,000,000	1,100,000,000	~	~	~	~	18,100,000	7,270,000	10,302,140	20,000	1,100	3,070,000	K	3,740,000	K	5,310,000	K	14,000,000	K
Arsenic	7440-38-2	C	1.3	26	290	5,800	26	~	8,600	3,700	5,060	1,000	300	3,300		8,700		8,900		6,200	
Barium	7440-39-3	N	300,000	6,000,000	82,000	1,640,000	6,000,000	~	138,000	30,600	89,050	20,000	130	22,100		20,600		57,300		95,300	
Beryllium	7440-41-7	N	58,000	1,160,000	3,200	64,000	1,200,000	~	1,200	160	620	500	46	<2,800		<4,100		<4,500		820	
Cadmium	7440-43-9	N	1,400	28,000	380	7,600	55,000	~	~	~	~	200	43	3,900		3,200		2,700		3,000	
Calcium	7440-70-2	~	~	~	~	~	~	~	1,080,000	79,400	597,200	500,000	37,000	3,680,000		5,190,000		5,840,000		6,400,000	
Chromium	7440-47-3	N	---	---	180,000,000	3,600,000,000	2,000,000,000,000	~	25,000	11,800	15,590	500	380	100,000		162,000		172,000		86,700	
Cobalt	7440-48-4	N	490	9,800	~	~	~	~	14,400	1,900	5,520	5,000	150	3,300		5,400		12,700		12,300	
Copper	7440-50-8	N	51,000	1,020,000	46,000	920,000	11,000,000	~	18,400	7,600	12,410	2,500	270	139,000		223,000		229,000		159,000	
Iron	7439-89-6	N	640,000	12,800,000	~	~	~	~	34,600,000	13,900,000	20,185,710	10,000	6,600	59,700,000	K	95,000,000	K	106,000,000	K	38,200,000	K
Lead	7439-92-1	~	~	~	14,000	280,000	~	~	189,000	13,000	31,660	300	240	77,700	J	101,000	J	120,000	J	77,900	J
Magnesium	7439-95-4	~	~	~	~	~	~	~	1,550,000	149,000	960,860	500,000	12,000	1,200,000		1,480,000	B	1,380,000		1,290,000	
Manganese	7439-96-5	N	57,000	1,140,000	~	~	950,000	~	1,610,000	11,800	546,410	1,500	150	283,000		459,000		539,000		211,000	
Mercury	7439-97-6	N	30	600	100	2,000	~	~	~	~	~	100	8	250	K	410	K	650	K	350	K
Nickel	7440-02-0	N	48,000	960,000	~	~	~	~	15,300	3,100	6,470	4,000	270	35,000	K	57,300	K	80,500	K	55,800	K
Potassium	7440-09-7	~	~	~	~	~	~	~	1,230,000	323,000	785,640	500,000	5,100	152,000	B	213,000	B	305,000	B	629,000	
Selenium	7782-49-2	N	950	19,000	260	5,200	19,000	~	~	~	~	25,000	310	2,100		<4,100		<4,500		2,400	
Vanadium	7440-62-2	N	180,000	3,600,000	~	~	730,000	~	39,600	21,400	28,040	5,000	130	19,500	K	27,300	K	41,000	K	57,400	K
Zinc	7440-66-6	N	680,000	13,600,000	~	~	14,000,000	~	95,500	11,400	11,400	2,000	1,200	2,510,000		4,220,000		3,950,000		4,230,000	
Additional Inorganic Parameters																					
Chloride	Q138	~	~	~	~	~	~	~	~	~	~	30	~	49,800	B J	97,000	J	75,600	B J	86,900	J
Nitrate	14797-55-8	N	~	~	~	~	~	~	~	~	~	1	~	10,000	B	14,900	B	15,800	B	12,400	B
Percent Solids	Q1082	~	~	~	~	~	~	~	~	~	~	~	~	18.1%		12.3%		11.1%		13.9%	
Sulfate	Q605	~	~	~	~	~	~	~	~	~	~	10	~	4,420,000	J	8,670,000	J	7,140,000	J	5,940,000	J
Total Kjeldahl Nitrogen	Q483	~	~	~	~	~	~	~	~	~	~	50	44.2	23,800,000		35,900,000		36,200,000		23,800,000	
Total Organic Carbon	7440-44-0	~	~	~	~	~	~	~	~	~	~	100	100	192,000,000		177,000,000		32,900,000		271,000,000	

Notes:

ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening criteria for the selected surrogates have been incorporated into this table.

[4] Site specific SSLs are calculated using USEPA Superfund calculator and site-specific values

[5] Background maximum/minimum concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

[6] Average background concentrations as presented in the *RFI Report, Honeywell Chesterfield Facility, Chester, Virginia*, provided by USEPA

B = The compound / analyte was not detected substantially above the level of the associated method blank / preparation or field blank
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Q = The result was quantitated against the response factor of a calibration method
R = The results for this compound/analyte is unusable. The analyte may or may not be present.
R* = Indicates the compound is suspected; however, a manual spectural search was performed to determine the presence of said compound. It was not detected in the samples.
T = The tentatively identified compound is a targeted analyte of another analysis fraction

Table 21
Summary of Phase III Detected Soil Constituents, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Analyte	CAS	C / N[1]	Unit	Protection of Groundwater SSLs[2]				VFSP								
				Risk-Based		MCL-Based		VFSP-1	VFSP-2	VFSP-3	VFSP-4	VFSP-5	VFSP-6	VFSP-7	VFSP-8	VFSP-9
								3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007	3/6/2007
				DAF 1	DAF 20	DAF 1	DAF 20	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual	Conc/Qual
Semivolatile Organic Compounds-TIC																
.alpha.-Amyrin	638-95-9	---	ug/Kg	---	---	---	---	---	---	---	9,800 JN	6,500 JN	23,000 JN	26,000 JN	14,000 JN	5,800 JN
.gamma.-Sitosterol	83-47-6	---	ug/Kg	---	---	---	---	14,000 JN	---	32,000 JN	---	9,500 JN	26,000 JN	24,000 JN	16,000 JN	6,400 JN
1-Docosanethiol[3]	7773-83-3	---	ug/Kg	310	6,200	---	---	---	---	11,000 JN	---	---	---	---	---	---
1-Dotriacontanol[3]	6624-79-9	---	ug/Kg	760	15,200	---	---	---	---	---	9,500 JN	---	---	---	---	---
5(1H)-Azulenone, 2,4,6,7,8,8a-hexahydro-[3]	6754-66-1	---	ug/Kg	680	13,600	---	---	---	3,000 JN	27,000 JN	---	13,000 JN	---	---	31,000 JN	---
Benzo[b]naphtho[2,3-d]furan[3]	243-42-5	---	ug/Kg	680	13,600	---	---	---	---	13,000 JN	---	---	---	---	---	---
Cholestane, 3-ethoxy-, (3.beta.,5.alpha.	2089-02-3	---	ug/Kg	---	---	---	---	---	---	9,500 JN	---	---	---	12,000 JN	---	---
Cyclooctacosane[3]	297-24-5	---	ug/Kg	13,000	260,000	---	---	---	---	---	---	---	---	---	---	1,900 JN
Ergost-5-en-3-ol, (3.beta.)-	4651-51-8	---	ug/Kg	---	---	---	---	---	---	---	4,200 JN	---	---	---	---	---
Ergostanol	6538-02-9	---	ug/Kg	---	---	---	---	---	---	21,000 JN	11,000 JN	12,000 JN	---	36,000 JN	---	7,200 JN
Pentacosane[3]	629-99-2	---	ug/Kg	6,200	124,000	---	---	---	---	---	---	---	---	---	6,400 JN	---
Pentatriacontane[3]	630-07-9	---	ug/Kg	6,200	124,000	---	---	---	---	---	---	---	---	---	5,300 JN	---
Stigmasterol	83-48-7	---	ug/Kg	---	---	---	---	---	---	8,100 JN	---	---	---	---	---	---

Notes:

ug/Kg = micrograms per kilogram; MCL = USEPA Maximum Contaminant Level; SSL = Soil Screening Levels; DAF = Dilution Attenuation Factor; RL = Reporting limit; MDL = Method detection limit
June 2011 Regional Screening Table developed by Oakridge National Laboratory under an Interagency Agreement with the EPA
Compounds shown without either Risk-Based or MCL-Based SSLs were identified as having a low inherent toxicity, are structurally similar to
compounds with low inherent toxicity, are essential nutrients and/or physical soil properties and were not evaluated further.

[1] Carcinogen/NonCarcinogen (C or N) taken from Oakridge National Laboratory under an Interagency Agreement with EPA

[2] Factor of 0.1 multiplied by the Noncarcinogenic Screening Values (Screening Levels Only)

[3] Surrogate compounds selected as detailed in Table 3-1 of the Human Health Risk Assessment (Attachment A to the Final RFI Report). Screening
criteria for the selected surrogates have been incorporated into this table.

JN = The analysis indicates the presence of an analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration

ATTACHMENTS

ATTACHMENT A

HUMAN HEALTH RISK ASSESSMENT REPORT (HHRA)
(PROVIDED UNDER SEPARATE COVER)

ATTACHMENT B

BASELINE ECOLOGICAL RISK ASSESSMENT REPORT (BERA)
(PROVIDED UNDER SEPARATE COVER)

ATTACHMENT C

USEPA APPROVAL LETTERS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

April 25, 2007

Mr. William Perkinson
Hercules Incorporated
Aqualon Division
1111 Hercules Road
Hopewell, VA 23860-5245

RE: Hercules Incorporated, Aqualon Division, VAD003121928
Phase III Sampling and Analysis Plan, Revision No. 1(GES, April 2007)

Dear Bill:

I have reviewed the *Phase III Sampling and Analysis Plan, Revision No. 1 (GES, April 2007).* As the document is responsive to EPA's March 29, 2007, comments on the previous draft and our April 3, 2007 discussion, it is approved as submitted.

I look forward to the start of the field work during the week of May 7, 2007.

Please contact me at (215) 814-3234 with any questions.

Sincerely,

Stephanie Dehnhard
Project Manager

cc: Steve Spence, Hercules
Montgomery Bennett, GES, Inc.

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Customer Service Hotline: 1-800-438-2474

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

Mr. Steve Spence
Ashland
Ashland Aqualon Functional Ingredients
1111 Hercules Road
Hopewell, VA 23860-5245

December 14, 2009

RE: Ashland (Formerly Hercules), Aqualon Division, VAD003121928
Ashland's Response to Comments on the Final Response to USEPA's Comments on the Phase III Site Investigation Summary Report, dated November 19, 2008

Dear Mr. Spence,

EPA has reviewed Ashland's Response to Comments on the Final Response to USEPA's Comments on the Phase III Site Investigation Summary Report, dated November 19, 2008, and finds them acceptable.

If you have any questions, you can contact me at (215) 814-3435.

Sincerely,

Michael A. Jacobi
Project Manager

cc: Bill Perkinson, Hercules
Montgomery Bennett, GES, Inc.

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Erin Wright

From: Jacobi.Mike@epamail.epa.gov
Sent: Wednesday, July 28, 2010 1:54 PM
To: Montgomery Bennett
Cc: Bill E. Perkinson; Erin Wright; Stephen G. Spence
Subject: Re: Hercules Aqualon - TIC Evaluation letter

Folks,

EPA has reviewed the TIC supplemental evaluation report dated July 6, 2010, and concurs with the "Path Forward" recommendation on page 5 of the report.

thanks

Michael Jacobi
Office of Remediation (3LC20)
EPA Region III
1650 Arch Street
Philadelphia, Pa. 19103-2029
215-814-3435
jacobi.mike@epa.gov

From: "Montgomery Bennett" <MBennett@gesonline.com>
To: Mike Jacobi/R3/USEPA/US@EPA
Cc: "Stephen G. Spence" <sgspence@ashland.com>, "Bill E. Perkinson" <beperkinson@ashland.com>, "Erin Wright" <EWright@gesonline.com>
Date: 07/06/2010 09:04 AM
Subject: Hercules Aqualon - TIC Evaluation letter

Mike:

Attached, for your review and consideration, is the long-awaited TIC evaluation summary for the referenced facility. Please do not hesitate to contact me with any questions you may have regarding the information provided in the attached document.

We will also forward two (2) hard copies of this submittal to your attention.

Regards,

Monty

Montgomery S. Bennett, P.G.
Senior Project Manager
Groundwater & Environmental Services, Inc.
23 South 13th Street, Suite 201

Richmond, Virginia 23219
Phone 866-222-7786 , Ext. 3771
Fax (804) 343-0770
Cell (804) 467-8572
mbennett@gesonline.com

Confidentiality Notice: This transmission (including any attachments) may contain confidential information belonging to Groundwater & Environmental Services, Inc. and is intended only for the use of the party or entity to which it is addressed. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, retention or the taking of action in reliance on the contents of this transmission is strictly prohibited. If you have received this transmission in error, please immediately notify the sender and erase all information and attachments. Thank You. [attachment "20100706 TIC Response Cover Letter - FINAL w att.pdf" deleted by Mike Jacobi/R3/USEPA/US]

ATTACHMENT D

SUPPLEMENTAL PHASE III INVESTIGATION 2009 LABORATORY ANALYTICAL DATA (ON CD)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-45579-1

SDG Number: HAQ032

Job Description: Aqualon Surface Waters 3/17-18/09

For:
Groundwater & Environmental Services Inc
Exchange Alley Building
23 South 13th Street Suite 201
Richmond, VA 23219

Attention: Mr. Montgomery Bennett

Approved for release.
Lidya Gulizia
Project Manager I
4/30/2009 4:18 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
04/30/2009

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: SDBSW-3 (680-45623-1 MS), SDBSW-3 (680-45623-1 MSD). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 133386 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

HPLC
No analytical or quality issues were noted.

GC VOA
Method(s) 8015B: The matrix spike duplicate (MSD) recovery for batch 133767 was outside control limits. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 133803 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 351.2: Reanalysis of the following sample(s) was performed outside of the analytical holding time: BD-1 (680-45623-2), SDBSW-3 (680-45623-1). Sample duplicates did not agree with one another.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Nonhalogenated Organic Compounds - Direct Injection (GC)	TAL SAV	SW846 8015B	
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL SAV	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C
Acrylamide (HPLC; DAI)	TAL TAL	SW846 8316	
Sample Filtration	TAL TAL		Filtration
Metals (ICP/MS)	TAL SAV	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Chloride	TAL SAV	MCAWW 325.2	
Nitrogen, Total Kjeldahl	TAL SAV	MCAWW 351.2	
Nitrogen, Total Kjeldahl	TAL SAV		MCAWW 351.2
Nitrogen, Nitrate-Nitrite	TAL SAV	MCAWW 353.2	
Nitrogen, Nitrite	TAL SAV	MCAWW 353.2	
Sulfate	TAL SAV	MCAWW 375.4	
Organic Carbon, Total (TOC)	TAL SAV	SW846 9060	

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL
SW846 8270C	Davis, Nancy	ND
SW846 8270C	Nguyen, Thuong	TN
SW846 8316	Driver, Robert	RD
SW846 8015B	Moncrief, Amy	AM
SW846 6020	Boyuk, Brian	BB
MCAWW 325.2	Ross, Jon	JR
MCAWW 351.2	Ross, Jon	JR
MCAWW 353.2	Ross, Jon	JR
MCAWW 375.4	Ross, Jon	JR
SW846 9060	Blackshear, Kim	KB

SAMPLE SUMMARY

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-45579-1	VFSP-SW-1	Water	03/17/2009 1300	03/18/2009 0858
680-45579-2	SDB-SW-1	Water	03/17/2009 1430	03/18/2009 0858
680-45579-3	SDB-SW-2	Water	03/17/2009 1451	03/18/2009 0858
680-45579-4TB	TB-1	Water	03/17/2009 0000	03/18/2009 0858
680-45623-1	SDBSW-3	Water	03/18/2009 1215	03/19/2009 0852
680-45623-1MS	SDBSW-3	Water	03/18/2009 1215	03/19/2009 0852
680-45623-1MSD	SDBSW-3	Water	03/18/2009 1215	03/19/2009 0852
680-45623-2FD	BD-1	Water	03/18/2009 0000	03/19/2009 0852
680-45623-3TB	Trip Blank	Water	03/18/2009 0000	03/19/2009 0852
680-45623-4TB	Trip Blank	Water	03/18/2009 0000	03/19/2009 0852

SAMPLE RESULTS

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1936
Date Prepared: 03/24/2009 1936

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0015.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	4.9	J	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1936
Date Prepared: 03/24/2009 1936

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0015.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	84	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1936
Date Prepared: 03/24/2009 1936

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0015.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	38	T B J N
	Unknown	1.34	12	T J
	Unknown	1.39	37	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2005
Date Prepared: 03/24/2009 2005

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0017.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2005
Date Prepared: 03/24/2009 2005

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0017.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	88	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2005
Date Prepared: 03/24/2009 2005

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0017.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	44	T B J N
	Unknown	1.27	7.8	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2034
Date Prepared: 03/24/2009 2034

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0019.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	13	J	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	1.8	J	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	11		2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2034
Date Prepared: 03/24/2009 2034

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0019.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	0.51	J	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	96	75 - 121
Toluene-d8 (Surr)	102	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2034
Date Prepared: 03/24/2009 2034

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0019.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	34	T B J N
	Unknown	1.31	6.3	T J
	Unknown	1.40	33	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **TB-1**

Lab Sample ID: 680-45579-4TB
Client Matrix: Water

Date Sampled: 03/17/2009 0000
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1639
Date Prepared: 03/24/2009 1639

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0003.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **TB-1**

Lab Sample ID: 680-45579-4TB
Client Matrix: Water

Date Sampled: 03/17/2009 0000
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1639
Date Prepared: 03/24/2009 1639

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0003.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	101	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **TB-1**

Lab Sample ID: 680-45579-4TB
Client Matrix: Water

Date Sampled: 03/17/2009 0000
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1639
Date Prepared: 03/24/2009 1639

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0003.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	20	T B J N
	Unknown	1.34	11	T J
	Unknown	1.41	37	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2103
Date Prepared: 03/24/2009 2103

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0021.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	5.2	J	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	1.2	J	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2103
Date Prepared: 03/24/2009 2103

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0021.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	102	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2103
Date Prepared: 03/24/2009 2103

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0021.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	27	T B J N
	Unknown	1.35	13	T J
	Unknown	1.41	35	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2133
Date Prepared: 03/24/2009 2133

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0023.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2133
Date Prepared: 03/24/2009 2133

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0023.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	96	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2133
Date Prepared: 03/24/2009 2133

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0023.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	28	T B J N
	Unknown	1.31	6.4	T J
	Unknown	1.39	32	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-3TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1837
Date Prepared: 03/24/2009 1837

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0011.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-3TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1837
Date Prepared: 03/24/2009 1837

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0011.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-3TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1837
Date Prepared: 03/24/2009 1837

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0011.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.05	19	T B J N
	Unknown	1.31	7.2	T J
	Unknown	1.40	47	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-4TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1906
Date Prepared: 03/24/2009 1906

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0013.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-4TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1906
Date Prepared: 03/24/2009 1906

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0013.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-4TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1906
Date Prepared: 03/24/2009 1906

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0013.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	18	T B J N
	Unknown	1.40	37	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 2028
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133525
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5706.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	0.58	J	0.47	9.4
Benzo[g,h,i]perylene	1.5	J	0.63	9.4
Benzo[a]pyrene	0.96	J	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	2.6	J	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 2028
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133525
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5706.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	1.7	J	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	U	4.7	19
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133525	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-133018	Lab File ID:	g5706.d	
Dilution:	1.0		Initial Weight/Volume:	1060	mL
Date Analyzed:	03/24/2009 2028		Final Weight/Volume:	1	mL
Date Prepared:	03/19/2009 1235		Injection Volume:	1.0	uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosopiperidine	9.4	U	0.94	9.4
N-Nitrosopyrrolidine	9.4	U	0.94	9.4
5-Nitro-o-toluidine	9.4	U	0.94	9.4
Pentachlorobenzene	9.4	U	0.54	9.4
Pentachloronitrobenzene	9.4	U	0.94	9.4
Pentachlorophenol	47	U	4.7	47
Phenacetin	9.4	U	0.47	9.4
Phenanthrene	9.4	U	0.47	9.4
Phenol	9.4	U	0.47	9.4
p-Phenylene diamine	1900	U	9.4	1900
2-Picoline	9.4	U	0.63	9.4
Pronamide	9.4	U	0.94	9.4
Pyrene	9.4	U	0.47	9.4
Pyridine	47	U	9.4	47
Safrole, Total	9.4	U	0.47	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4
o-Toluidine	9.4	U	0.47	9.4
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4
2,4,5-Trichlorophenol	9.4	U	0.75	9.4
2,4,6-Trichlorophenol	9.4	U	0.47	9.4
o,o',o''-Triethylphosphorothioate	9.4	U	0.75	9.4
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	75	50 - 113
2-Fluorophenol	77	36 - 110
Nitrobenzene-d5	81	45 - 112
Phenol-d5	74	38 - 116
Terphenyl-d14	42	10 - 121
2,4,6-Tribromophenol	81	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133525	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-133018	Lab File ID:	g5706.d	
Dilution:	1.0		Initial Weight/Volume:	1060	mL
Date Analyzed:	03/24/2009 2028		Final Weight/Volume:	1	mL
Date Prepared:	03/19/2009 1235		Injection Volume:	1.0	uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown Aldol Condensate	3.68	30	T A J
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.41	12	T J N

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1527
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5698.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	9.4	U	0.47	9.4
Benzo[g,h,i]perylene	1.2	J	0.63	9.4
Benzo[a]pyrene	0.66	J	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	1.3	J	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1527
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5698.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	1.3	J	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	U	4.7	19
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1527
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5698.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosopiperidine	9.4	U	0.94	9.4
N-Nitrosopyrrolidine	9.4	U	0.94	9.4
5-Nitro-o-toluidine	9.4	U	0.94	9.4
Pentachlorobenzene	9.4	U	0.54	9.4
Pentachloronitrobenzene	9.4	U	0.94	9.4
Pentachlorophenol	47	U	4.7	47
Phenacetin	9.4	U	0.47	9.4
Phenanthrene	9.4	U	0.47	9.4
Phenol	9.4	U	0.47	9.4
p-Phenylene diamine	1900	U	9.4	1900
2-Picoline	9.4	U	0.63	9.4
Pronamide	9.4	U	0.94	9.4
Pyrene	9.4	U	0.47	9.4
Pyridine	47	U	9.4	47
Safrole, Total	9.4	U	0.47	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4
o-Toluidine	9.4	U	0.47	9.4
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4
2,4,5-Trichlorophenol	9.4	U	0.75	9.4
2,4,6-Trichlorophenol	9.4	U	0.47	9.4
o,o',o''-Triethylphosphorothioate	9.4	U	0.75	9.4
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	74	50 - 113
2-Fluorophenol	71	36 - 110
Nitrobenzene-d5	77	45 - 112
Phenol-d5	71	38 - 116
Terphenyl-d14	43	10 - 121
2,4,6-Tribromophenol	85	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133430	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-133018	Lab File ID:	g5698.d	
Dilution:	1.0		Initial Weight/Volume:	1060	mL
Date Analyzed:	03/23/2009 1527		Final Weight/Volume:	1	mL
Date Prepared:	03/19/2009 1235		Injection Volume:	1.0	uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown Aldol Condensate	3.77	30	T A J
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.50	10	T J N
	Unknown	4.65	5.5	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1549
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5699.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.7	U	0.49	9.7
Acenaphthylene	9.7	U	0.49	9.7
Acetophenone	9.7	U	0.49	9.7
2-Acetylaminofluorene	9.7	U	0.54	9.7
4-Aminobiphenyl	9.7	U	0.49	9.7
Aniline	19	U	8.3	19
Anthracene	9.7	U	0.49	9.7
Aramite, Total	9.7	U	0.51	9.7
Benzo[a]anthracene	9.7	U	0.49	9.7
Benzo[b]fluoranthene	9.7	U	0.65	9.7
Benzo[k]fluoranthene	9.7	U	0.49	9.7
Benzo[g,h,i]perylene	0.71	J	0.65	9.7
Benzo[a]pyrene	9.7	U	0.49	9.7
Benzyl alcohol	9.7	U	0.78	9.7
4-Bromophenyl phenyl ether	9.7	U	0.49	9.7
Butyl benzyl phthalate	9.7	U	0.72	9.7
2-sec-Butyl-4,6-dinitrophenol	9.7	U	4.9	9.7
4-Chloroaniline	19	U	4.7	19
Bis(2-chloroethoxy)methane	9.7	U	0.49	9.7
Bis(2-chloroethyl)ether	9.7	U	0.57	9.7
2,2'-oxybis[1-chloropropane]	9.7	U	0.49	9.7
Bis(2-ethylhexyl) phthalate	9.7	U	0.91	9.7
4-Chloro-3-methylphenol	9.7	U	0.50	9.7
2-Chloronaphthalene	9.7	U	0.49	9.7
2-Chlorophenol	9.7	U	0.97	9.7
4-Chlorophenyl phenyl ether	9.7	U	0.97	9.7
Chrysene	9.7	U	0.49	9.7
Diallate	9.7	U	0.34	9.7
Dibenz(a,h)anthracene	0.64	J	0.49	9.7
Dibenzofuran	9.7	U	0.49	9.7
Di-n-butyl phthalate	9.7	U	0.49	9.7
1,2-Dichlorobenzene	9.7	U	0.49	9.7
1,3-Dichlorobenzene	9.7	U	0.49	9.7
1,4-Dichlorobenzene	9.7	U	0.49	9.7
3,3'-Dichlorobenzidine	19	U	3.1	19
2,4-Dichlorophenol	9.7	U	0.97	9.7
2,6-Dichlorophenol	9.7	U	0.49	9.7
Diethyl phthalate	9.7	U	0.49	9.7
Dimethoate	9.7	U	0.61	9.7
p-Dimethylamino azobenzene	9.7	U	0.58	9.7
7,12-Dimethylbenz(a)anthracene	9.7	U	0.97	9.7
3,3'-Dimethylbenzidine	19	U	0.49	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.7	1900
2,4-Dimethylphenol	9.7	U	1.1	9.7

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1549
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5699.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.7	U	4.9	9.7
m-Dinitrobenzene	9.7	U	0.55	9.7
4,6-Dinitro-2-methylphenol	49	U	4.9	49
2,4-Dinitrophenol	49	U	9.7	49
2,4-Dinitrotoluene	9.7	U	0.49	9.7
2,6-Dinitrotoluene	9.7	U	0.49	9.7
Di-n-octyl phthalate	9.7	U	0.74	9.7
1,4-Dioxane	9.7	U	2.5	9.7
Ethyl methanesulfonate	9.7	U	0.54	9.7
Fluoranthene	9.7	U	0.49	9.7
Fluorene	9.7	U	0.49	9.7
Hexachlorobenzene	9.7	U	0.49	9.7
Hexachlorobutadiene	9.7	U	4.9	9.7
Hexachlorocyclopentadiene	9.7	U	4.9	9.7
Hexachloroethane	9.7	U	0.49	9.7
Hexachlorophene	4900	U	39	4900
Hexachloropropene	9.7	U	0.49	9.7
Indeno[1,2,3-cd]pyrene	9.7	U	0.83	9.7
Isophorone	9.7	U	0.49	9.7
Isosafrole	9.7	U	0.30	9.7
Methapyrilene	1900	U	4.9	1900
3-Methylcholanthrene	9.7	U	0.49	9.7
Methyl methanesulfonate	9.7	U	0.49	9.7
2-Methylnaphthalene	9.7	U	0.49	9.7
2-Methylphenol	9.7	U	0.62	9.7
3 & 4 Methylphenol	9.7	U	0.97	9.7
Naphthalene	9.7	U	0.49	9.7
1-Naphthalenamine	7.4	J	0.49	9.7
2-Naphthalenamine	9.7	U	0.97	9.7
1,4-Naphthoquinone	9.7	U	0.97	9.7
2-Nitroaniline	49	U	4.9	49
3-Nitroaniline	49	U	2.7	49
4-Nitroaniline	49	U	1.9	49
Nitrobenzene	9.7	U	0.49	9.7
2-Nitrophenol	9.7	U	4.9	9.7
4-Nitrophenol	49	U	9.7	49
4-Nitroquinoline-1-oxide	19	U	4.9	19
N-Nitrosodi-n-butylamine	9.7	U	0.97	9.7
N-Nitrosodiethylamine	9.7	U	0.49	9.7
N-Nitrosodimethylamine	9.7	U	1.2	9.7
N-Nitrosodiphenylamine	9.7	U	0.71	9.7
N-Nitrosodi-n-propylamine	9.7	U	0.49	9.7
N-Nitrosomethylethylamine	9.7	U	4.9	9.7
N-Nitrosomorpholine	9.7	U	0.57	9.7

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1549
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5699.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosopiperidine	9.7	U	0.97	9.7
N-Nitrosopyrrolidine	9.7	U	0.97	9.7
5-Nitro-o-toluidine	9.7	U	0.97	9.7
Pentachlorobenzene	9.7	U	0.55	9.7
Pentachloronitrobenzene	9.7	U	0.97	9.7
Pentachlorophenol	49	U	4.9	49
Phenacetin	9.7	U	0.49	9.7
Phenanthrene	9.7	U	0.49	9.7
Phenol	9.7	U	0.49	9.7
p-Phenylene diamine	1900	U	9.7	1900
2-Picoline	9.7	U	0.65	9.7
Pronamide	9.7	U	0.97	9.7
Pyrene	9.7	U	0.49	9.7
Pyridine	49	U	9.7	49
Safrole, Total	9.7	U	0.49	9.7
1,2,4,5-Tetrachlorobenzene	9.7	U	0.50	9.7
2,3,4,6-Tetrachlorophenol	9.7	U	0.49	9.7
o-Toluidine	9.7	U	0.49	9.7
1,2,4-Trichlorobenzene	9.7	U	0.69	9.7
2,4,5-Trichlorophenol	9.7	U	0.78	9.7
2,4,6-Trichlorophenol	9.7	U	0.49	9.7
o,o',o''-Triethylphosphorothioate	9.7	U	0.77	9.7
1,3,5-Trinitrobenzene	9.7	U	4.9	9.7

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	70	50 - 113
2-Fluorophenol	68	36 - 110
Nitrobenzene-d5	72	45 - 112
Phenol-d5	70	38 - 116
Terphenyl-d14	45	10 - 121
2,4,6-Tribromophenol	87	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133430	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-133018	Lab File ID:	g5699.d	
Dilution:	1.0		Initial Weight/Volume:	1030	mL
Date Analyzed:	03/23/2009 1549		Final Weight/Volume:	1	mL
Date Prepared:	03/19/2009 1235		Injection Volume:	1.0	uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown Aldol Condensate	3.77	28	T A J
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.50	8.9	T J N
	Unknown	4.65	4.6	T J
	Unknown	4.78	9.7	T J
2091-29-4	9-Hexadecenoic acid	10.15	4.2	T J N

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2143
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5766.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	9.4	U	0.47	9.4
Benzo[g,h,i]perylene	9.4	U	0.63	9.4
Benzo[a]pyrene	9.4	U	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	9.4	U	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2143
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5766.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	U	4.7	19
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2143
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5766.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosopiperidine	9.4	U	0.94	9.4
N-Nitrosopyrrolidine	9.4	U	0.94	9.4
5-Nitro-o-toluidine	9.4	U	0.94	9.4
Pentachlorobenzene	9.4	U	0.54	9.4
Pentachloronitrobenzene	9.4	U	0.94	9.4
Pentachlorophenol	47	U	4.7	47
Phenacetin	9.4	U	0.47	9.4
Phenanthrene	9.4	U	0.47	9.4
Phenol	9.4	U	0.47	9.4
p-Phenylene diamine	1900	U	9.4	1900
2-Picoline	9.4	U	0.63	9.4
Pronamide	9.4	U	0.94	9.4
Pyrene	9.4	U	0.47	9.4
Pyridine	47	U	9.4	47
Safrole, Total	9.4	U	0.47	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4
o-Toluidine	9.4	U	0.47	9.4
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4
2,4,5-Trichlorophenol	9.4	U	0.75	9.4
2,4,6-Trichlorophenol	9.4	U	0.47	9.4
o,o',o''-Triethylphosphorothioate	9.4	U	0.75	9.4
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	68	50 - 113
2-Fluorophenol	58	36 - 110
Nitrobenzene-d5	59	45 - 112
Phenol-d5	56	38 - 116
Terphenyl-d14	36	10 - 121
2,4,6-Tribromophenol	82	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2143
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5766.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Tentatively Identified Compounds **Number TIC's Found:** **6**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown Aldol Condensate	3.62	20	T A J
	Unknown	4.50	4.1	T J
	Unknown	4.63	5.8	T J
	Unknown Organic Acid	9.99	4.9	T J
	Unknown	10.97	5.0	T J
791-28-6	Phosphine oxide, triphenyl-	11.35	6.9	T J N

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2205
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5767.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	9.4	U	0.47	9.4
Benzo[g,h,i]perylene	9.4	U	0.63	9.4
Benzo[a]pyrene	9.4	U	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	9.4	U	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2205
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5767.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	U	4.7	19
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133680	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-133386	Lab File ID:	g5767.d	
Dilution:	1.0		Initial Weight/Volume:	1060	mL
Date Analyzed:	03/26/2009 2205		Final Weight/Volume:	1	mL
Date Prepared:	03/24/2009 1130		Injection Volume:	1.0	uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosopiperidine	9.4	U	0.94	9.4
N-Nitrosopyrrolidine	9.4	U	0.94	9.4
5-Nitro-o-toluidine	9.4	U	0.94	9.4
Pentachlorobenzene	9.4	U	0.54	9.4
Pentachloronitrobenzene	9.4	U	0.94	9.4
Pentachlorophenol	47	U	4.7	47
Phenacetin	9.4	U	0.47	9.4
Phenanthrene	9.4	U	0.47	9.4
Phenol	9.4	U	0.47	9.4
p-Phenylene diamine	1900	U	9.4	1900
2-Picoline	9.4	U	0.63	9.4
Pronamide	9.4	U	0.94	9.4
Pyrene	9.4	U	0.47	9.4
Pyridine	47	U	9.4	47
Safrole, Total	9.4	U	0.47	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4
o-Toluidine	9.4	U	0.47	9.4
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4
2,4,5-Trichlorophenol	9.4	U	0.75	9.4
2,4,6-Trichlorophenol	9.4	U	0.47	9.4
o,o',o''-Triethylphosphorothioate	9.4	U	0.75	9.4
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	76	50 - 113
2-Fluorophenol	70	36 - 110
Nitrobenzene-d5	69	45 - 112
Phenol-d5	68	38 - 116
Terphenyl-d14	37	10 - 121
2,4,6-Tribromophenol	83	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133680	Instrument ID: GC/MS SemiVolatiles - G
Preparation:	3520C	Prep Batch: 680-133386	Lab File ID: g5767.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	03/26/2009 2205		Final Weight/Volume: 1 mL
Date Prepared:	03/24/2009 1130		Injection Volume: 1.0 uL

Tentatively Identified Compounds **Number TIC's Found:** **4**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Unknown	4.50	5.2	T J
791-28-6	Phosphine oxide, triphenyl-	11.35	12	T J N
	Unknown	12.87	4.6	T J
	Unknown	14.75	8.0	T J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8316 Acrylamide (HPLC; DAI)-Dissolved

Method: 8316
Preparation: Filtration
Dilution: 1.0
Date Analyzed: 03/24/2009 1749
Date Prepared: 03/24/2009 0800

Analysis Batch: 640-55057
Prep Batch: 640-54967

Instrument ID: LCL Waters 486
Lab File ID: 2C24L14.d
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume: 50 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acrylamide	100	U	8.0	100

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8316 Acrylamide (HPLC; DAI)-Dissolved

Method: 8316
Preparation: Filtration
Dilution: 1.0
Date Analyzed: 03/24/2009 1758
Date Prepared: 03/24/2009 0800

Analysis Batch: 640-55057
Prep Batch: 640-54967

Instrument ID: LCL Waters 486
Lab File ID: 2C24L15.d
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume: 50 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acrylamide	100	U	8.0	100

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8316 Acrylamide (HPLC; DAI)-Dissolved

Method: 8316
Preparation: Filtration
Dilution: 1.0
Date Analyzed: 03/24/2009 1806
Date Prepared: 03/24/2009 0800

Analysis Batch: 640-55057
Prep Batch: 640-54967

Instrument ID: LCL Waters 486
Lab File ID: 2C24L16.d
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume: 50 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acrylamide	100	U	8.0	100

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8316 Acrylamide (HPLC; DAI)-Dissolved

Method: 8316
Preparation: Filtration
Dilution: 1.0
Date Analyzed: 03/24/2009 1713
Date Prepared: 03/24/2009 0800

Analysis Batch: 640-55057
Prep Batch: 640-54967

Instrument ID: LCL Waters 486
Lab File ID: 2C24L10.d
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume: 50 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acrylamide	100	U	8.0	100

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8316 Acrylamide (HPLC; DAI)-Dissolved

Method:	8316	Analysis Batch: 640-55057	Instrument ID:	LCL Waters 486	
Preparation:	Filtration	Prep Batch: 640-54967	Lab File ID:	2C24L13.d	
Dilution:	1.0		Initial Weight/Volume:	10	mL
Date Analyzed:	03/24/2009 1740		Final Weight/Volume:	10	mL
Date Prepared:	03/24/2009 0800		Injection Volume:	50	uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acrylamide	100	U	8.0	100

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1511
Date Prepared: N/A

Analysis Batch: 680-133767

Instrument ID: GC Volatiles - V FID1
Lab File ID: V032707.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethanol	1000	U	380	1000
Isopropanol	1000	U	320	1000
Methanol	1000	U	320	1000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/30/2009 1708
Date Prepared: N/A

Analysis Batch: 680-133922

Instrument ID: GC Volatiles - V FID1
Lab File ID: V033003.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Allyl alcohol	1000	U	330	1000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1506
Date Prepared: N/A

Analysis Batch: 680-133849

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032704.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diethylene glycol	1000	J	500	5000
Propylene glycol	5000	U	970	5000
Ethylene glycol monobutyl ether	5000	U	500	5000
Ethylene glycol monopropyl ether	5000	U	1000	5000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 2136
Date Prepared: N/A

Analysis Batch: 680-133851

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032714.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dipropylene glycol	5000	U	2600	5000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/30/2009 1523
Date Prepared: N/A

Analysis Batch: 680-133900

Instrument ID: GC Volatiles - G FID1
Lab File ID: G033006.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene glycol	1000	J	760	5000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1532
Date Prepared: N/A

Analysis Batch: 680-133767

Instrument ID: GC Volatiles - V FID1
Lab File ID: V032708.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethanol	1000	U	380	1000
Isopropanol	1000	U	320	1000
Methanol	1000	U	320	1000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/30/2009 1730
Date Prepared: N/A

Analysis Batch: 680-133922

Instrument ID: GC Volatiles - V FID1
Lab File ID: V033004.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Allyl alcohol	1000	U	330	1000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1529
Date Prepared: N/A

Analysis Batch: 680-133849

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032705.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene glycol	3500	J	760	5000
Diethylene glycol	5000	U	500	5000
Propylene glycol	5000	U	970	5000
Ethylene glycol monobutyl ether	5000	U	500	5000
Ethylene glycol monopropyl ether	5000	U	1000	5000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 2159
Date Prepared: N/A

Analysis Batch: 680-133851

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032715.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dipropylene glycol	5000	U	2600	5000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1554
Date Prepared: N/A

Analysis Batch: 680-133767

Instrument ID: GC Volatiles - V FID1
Lab File ID: V032709.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethanol	1000	U	380	1000
Isopropanol	1000	U	320	1000
Methanol	1000	U	320	1000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/30/2009 1751
Date Prepared: N/A

Analysis Batch: 680-133922

Instrument ID: GC Volatiles - V FID1
Lab File ID: V033005.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Allyl alcohol	1000	U	330	1000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1552
Date Prepared: N/A

Analysis Batch: 680-133849

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032706.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene glycol	5100		760	5000
Diethylene glycol	5000	U	500	5000
Propylene glycol	5000	U	970	5000
Ethylene glycol monobutyl ether	5000	U	500	5000
Ethylene glycol monopropyl ether	5000	U	1000	5000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 2222
Date Prepared: N/A

Analysis Batch: 680-133851

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032716.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dipropylene glycol	5000	U	2600	5000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1615
Date Prepared: N/A

Analysis Batch: 680-133767

Instrument ID: GC Volatiles - V FID1
Lab File ID: V032710.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethanol	1000	U	380	1000
Isopropanol	1000	U	320	1000
Methanol	1000	U	320	1000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/31/2009 1553
Date Prepared: N/A

Analysis Batch: 680-134041

Instrument ID: GC Volatiles - V FID1
Lab File ID: V033101.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Allyl alcohol	1000	U	330	1000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1615
Date Prepared: N/A

Analysis Batch: 680-133849

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032707.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene glycol	3400	J	760	5000
Diethylene glycol	5000	U	500	5000
Propylene glycol	5000	U	970	5000
Ethylene glycol monobutyl ether	5000	U	500	5000
Ethylene glycol monopropyl ether	5000	U	1000	5000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 2244
Date Prepared: N/A

Analysis Batch: 680-133851

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032717.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dipropylene glycol	5000	U	2600	5000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1636
Date Prepared: N/A

Analysis Batch: 680-133767

Instrument ID: GC Volatiles - V FID1
Lab File ID: V032711.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethanol	1000	U	380	1000
Isopropanol	1000	U	320	1000
Methanol	1000	U	320	1000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/31/2009 1614
Date Prepared: N/A

Analysis Batch: 680-134041

Instrument ID: GC Volatiles - V FID1
Lab File ID: V033102.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Allyl alcohol	1000	U	330	1000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8015B Nonhalogenated Organic Compounds - Direct Injection (GC)

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 1638
Date Prepared: N/A

Analysis Batch: 680-133849

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032708.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene glycol	4100	J	760	5000
Diethylene glycol	5000	U	500	5000
Propylene glycol	5000	U	970	5000
Ethylene glycol monobutyl ether	5000	U	500	5000
Ethylene glycol monopropyl ether	5000	U	1000	5000

Method: 8015B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/27/2009 2307
Date Prepared: N/A

Analysis Batch: 680-133851

Instrument ID: GC Volatiles - G FID1
Lab File ID: G032718.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dipropylene glycol	5000	U	2600	5000

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1051
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	830		15	50
Antimony	0.52	J	0.36	2.5
Arsenic	1.2	J	0.28	2.5
Barium	41		2.0	5.0
Beryllium	0.10	J	0.065	0.50
Cadmium	0.50	U	0.12	0.50
Calcium	3300		50	250
Chromium	4.2	J B	0.60	5.0
Cobalt	1.2		0.029	0.50
Copper	7.7		1.2	5.0
Iron	7000		12	100
Lead	5.2		0.15	1.5
Magnesium	940		14	250
Manganese	25		0.95	5.0
Mercury	0.50	U	0.22	0.50
Nickel	3.8	B	0.32	1.0
Potassium	2700		40	250
Selenium	2.5	U	0.60	2.5
Silver	1.0	U	0.090	1.0
Sodium	3600		90	250
Thallium	1.0	U	0.55	1.0
Vanadium	5.4	B	0.80	5.0
Zinc	120		6.5	20

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1124
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	320		15	50
Antimony	2.5	U	0.36	2.5
Arsenic	0.95	J	0.28	2.5
Barium	9.9		2.0	5.0
Beryllium	0.50	U	0.065	0.50
Cadmium	0.50	U	0.12	0.50
Calcium	2900		50	250
Chromium	1.8	J B	0.60	5.0
Cobalt	0.47	J	0.029	0.50
Copper	5.0	U	1.2	5.0
Iron	5400		12	100
Lead	1.0	J	0.15	1.5
Magnesium	1500		14	250
Manganese	49		0.95	5.0
Mercury	0.50	U	0.22	0.50
Nickel	1.4	B	0.32	1.0
Potassium	4900		40	250
Selenium	2.5	U	0.60	2.5
Silver	1.0	U	0.090	1.0
Sodium	3500		90	250
Thallium	1.0	U	0.55	1.0
Vanadium	3.1	J B	0.80	5.0
Zinc	8.1	J	6.5	20

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1131
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	540		15	50
Antimony	2.5	U	0.36	2.5
Arsenic	0.68	J	0.28	2.5
Barium	7.1		2.0	5.0
Beryllium	0.50	U	0.065	0.50
Cadmium	0.50	U	0.12	0.50
Calcium	3500		50	250
Chromium	1.9	J B	0.60	5.0
Cobalt	0.27	J	0.029	0.50
Copper	1.6	J	1.2	5.0
Iron	2500		12	100
Lead	0.49	J	0.15	1.5
Magnesium	1600		14	250
Manganese	67		0.95	5.0
Mercury	0.50	U	0.22	0.50
Nickel	1.3	B	0.32	1.0
Potassium	4100		40	250
Selenium	2.5	U	0.60	2.5
Silver	1.0	U	0.090	1.0
Sodium	4100		90	250
Thallium	1.0	U	0.55	1.0
Vanadium	2.6	J B	0.80	5.0
Zinc	13	J	6.5	20

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch: 680-133669	Instrument ID: ICP MS - A
Preparation:	3005A	Prep Batch: 680-133353	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/24/2009 2223		Final Weight/Volume: 250 mL
Date Prepared:	03/23/2009 1429		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	1100		15	50
Antimony	2.5	U	0.36	2.5
Arsenic	0.75	J	0.28	2.5
Barium	42		2.0	5.0
Beryllium	0.20	J	0.065	0.50
Cadmium	0.15	J	0.12	0.50
Calcium	4500		50	250
Chromium	2.5	J	0.60	5.0
Cobalt	2.2		0.029	0.50
Copper	6.7		1.2	5.0
Iron	2100		12	100
Lead	2.0		0.15	1.5
Magnesium	2100		14	250
Manganese	350		0.95	5.0
Mercury	0.50	U	0.22	0.50
Nickel	4.1		0.32	1.0
Selenium	2.5	U	0.60	2.5
Silver	1.0	U	0.090	1.0
Sodium	4000		90	250
Thallium	1.0	U	0.55	1.0
Vanadium	5.3		0.80	5.0
Zinc	58		6.5	20

Method:	6020	Analysis Batch: 680-133684	Instrument ID: ICP MS - A
Preparation:	3005A	Prep Batch: 680-133353	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/25/2009 2112		Final Weight/Volume: 250 mL
Date Prepared:	03/23/2009 1429		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	3800		40	250

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch: 680-133669		Instrument ID:	ICP MS - A
Preparation:	3005A	Prep Batch: 680-133353		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/24/2009 2257			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	950		15	50
Antimony	2.5	U	0.36	2.5
Arsenic	0.60	J	0.28	2.5
Barium	23		2.0	5.0
Beryllium	0.090	J	0.065	0.50
Cadmium	0.50	U	0.12	0.50
Calcium	3600		50	250
Chromium	1.9	J	0.60	5.0
Cobalt	0.85		0.029	0.50
Copper	4.1	J	1.2	5.0
Iron	1100		12	100
Lead	0.59	J	0.15	1.5
Magnesium	1900		14	250
Manganese	120		0.95	5.0
Mercury	0.50	U	0.22	0.50
Nickel	3.1		0.32	1.0
Selenium	2.5	U	0.60	2.5
Silver	1.0	U	0.090	1.0
Sodium	3900		90	250
Thallium	1.0	U	0.55	1.0
Vanadium	3.0	J	0.80	5.0
Zinc	34		6.5	20

Method:	6020	Analysis Batch: 680-133684		Instrument ID:	ICP MS - A
Preparation:	3005A	Prep Batch: 680-133353		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/25/2009 2146			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	4000		40	250

General Chemistry

Client Sample ID: VFSP-SW-1

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	2800		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	870	B	ug/L	57	200	1.0	351.2
Anly Batch: 680-133803	Date Analyzed			03/28/2009 1312			
Prep Batch: 680-133620	Date Prepared:			03/25/2009 1530			
Nitrate as N	380		ug/L	120	250	5.0	353.2
Anly Batch: 680-133358	Date Analyzed			03/18/2009 1420			
Nitrite as N	15	J	ug/L	10	50	1.0	353.2
Anly Batch: 680-133683	Date Analyzed			03/18/2009 1420			
Sulfate	17000		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1102			
Total Organic Carbon	6000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1317			

Client Sample ID: SDB-SW-1

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	6100		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	1000	B	ug/L	57	200	1.0	351.2
Anly Batch: 680-133803	Date Analyzed			03/28/2009 1312			
Prep Batch: 680-133620	Date Prepared:			03/25/2009 1530			
Nitrate as N	250	U	ug/L	120	250	5.0	353.2
Anly Batch: 680-133358	Date Analyzed			03/18/2009 1420			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
Anly Batch: 680-133683	Date Analyzed			03/18/2009 1420			
Sulfate	9300		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1102			
Total Organic Carbon	12000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1334			

General Chemistry

Client Sample ID: SDB-SW-2

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	5100		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	1600	B	ug/L	57	200	1.0	351.2
Anly Batch: 680-133803	Date Analyzed			03/28/2009 1312			
Prep Batch: 680-133620	Date Prepared:			03/25/2009 1530			
Nitrate as N	250	U	ug/L	120	250	5.0	353.2
Anly Batch: 680-133358	Date Analyzed			03/18/2009 1420			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
Anly Batch: 680-133683	Date Analyzed			03/18/2009 1420			
Sulfate	7300		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1102			
Total Organic Carbon	13000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1352			

Client Sample ID: SDBSW-3

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	3300		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	1200	H	ug/L	57	200	1.0	351.2
Anly Batch: 680-136587	Date Analyzed			04/30/2009 1324			
Prep Batch: 680-136483	Date Prepared:			04/29/2009 1430			
Nitrate as N	71		ug/L	25	50	1.0	353.2
Anly Batch: 680-133903	Date Analyzed			03/19/2009 1243			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
Anly Batch: 680-133682	Date Analyzed			03/19/2009 1243			
Sulfate	14000		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1130			
Total Organic Carbon	21000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1445			

General Chemistry

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	3700		ug/L	170	1000	1.0	325.2
	Anly Batch: 680-134033	Date Analyzed		03/31/2009 1614			
Nitrogen, Kjeldahl	1100	H	ug/L	57	200	1.0	351.2
	Anly Batch: 680-136587	Date Analyzed		04/30/2009 1324			
	Prep Batch: 680-136483	Date Prepared:		04/29/2009 1430			
Nitrate as N	140		ug/L	25	50	1.0	353.2
	Anly Batch: 680-133903	Date Analyzed		03/19/2009 1243			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
	Anly Batch: 680-133682	Date Analyzed		03/19/2009 1243			
Sulfate	14000		ug/L	2500	5000	1.0	375.4
	Anly Batch: 680-134020	Date Analyzed		03/31/2009 1130			
Total Organic Carbon	19000		ug/L	500	1000	1.0	9060
	Anly Batch: 680-133531	Date Analyzed		03/24/2009 1536			

DATA REPORTING QUALIFIERS

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	J	Indicates an Estimated Value for TICs
	U	Indicates the analyte was analyzed for but not detected.
	T	Result is a tentatively identified compound (TIC) and an estimated value.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	N	This flag indicates the presumptive evidence of a compound.
GC/MS Semi VOA		
	J	Indicates an Estimated Value for TICs
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	T	Result is a tentatively identified compound (TIC) and an estimated value.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate exceeds the control limits
	A	The tentatively identified compound is a suspected aldol-condensation product.
	N	This flag indicates the presumptive evidence of a compound.
HPLC		
	U	Indicates the analyte was analyzed for but not detected.

DATA REPORTING QUALIFIERS

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Section	Qualifier	Description
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-133478					
LCS 680-133478/8	Lab Control Sample	T	Water	8260B	
LCSD 680-133478/20	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-133478/7	Method Blank	T	Water	8260B	
680-45579-1	VFSP-SW-1	T	Water	8260B	
680-45579-2	SDB-SW-1	T	Water	8260B	
680-45579-3	SDB-SW-2	T	Water	8260B	
680-45579-4TB	TB-1	T	Water	8260B	
680-45623-1	SDBSW-3	T	Water	8260B	
680-45623-1MS	Matrix Spike	T	Water	8260B	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	8260B	
680-45623-2FD	BD-1	T	Water	8260B	
680-45623-3TB	Trip Blank	T	Water	8260B	
680-45623-4TB	Trip Blank	T	Water	8260B	

Report Basis
T = Total

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 680-133018					
LCS 680-133018/9-A	Lab Control Sample	T	Water	3520C	
LCSD 680-133018/10-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 680-133018/8-A	Method Blank	T	Water	3520C	
680-45579-1	VFSP-SW-1	T	Water	3520C	
680-45579-2	SDB-SW-1	T	Water	3520C	
680-45579-3	SDB-SW-2	T	Water	3520C	
Prep Batch: 680-133386					
LCS 680-133386/5-A	Lab Control Sample	T	Water	3520C	
LCSD 680-133386/6-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 680-133386/4-A	Method Blank	T	Water	3520C	
680-45623-1	SDBSW-3	T	Water	3520C	
680-45623-1MS	Matrix Spike	T	Water	3520C	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	3520C	
680-45623-2FD	BD-1	T	Water	3520C	
Analysis Batch:680-133430					
LCSD 680-133018/10-A	Lab Control Sample Duplicate	T	Water	8270C	680-133018
680-45579-2	SDB-SW-1	T	Water	8270C	680-133018
680-45579-3	SDB-SW-2	T	Water	8270C	680-133018
Analysis Batch:680-133525					
LCS 680-133018/9-A	Lab Control Sample	T	Water	8270C	680-133018
680-45579-1	VFSP-SW-1	T	Water	8270C	680-133018
Analysis Batch:680-133667					
MB 680-133018/8-A	Method Blank	T	Water	8270C	680-133018
Analysis Batch:680-133680					
LCS 680-133386/5-A	Lab Control Sample	T	Water	8270C	680-133386
LCSD 680-133386/6-A	Lab Control Sample Duplicate	T	Water	8270C	680-133386
MB 680-133386/4-A	Method Blank	T	Water	8270C	680-133386
680-45623-1	SDBSW-3	T	Water	8270C	680-133386
680-45623-2FD	BD-1	T	Water	8270C	680-133386
Analysis Batch:680-133763					
680-45623-1MS	Matrix Spike	T	Water	8270C	680-133386
680-45623-1MSD	Matrix Spike Duplicate	T	Water	8270C	680-133386

Report Basis
T = Total

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC					
Prep Batch: 640-54967					
LCS 640-54967/2-A	Lab Control Sample	D	Water	Filtration	
LCSD 640-54967/3-A	Lab Control Sample Duplicate	D	Water	Filtration	
MB 640-54967/1-A	Method Blank	D	Water	Filtration	
680-45579-1	VFSP-SW-1	D	Water	Filtration	
680-45579-2	SDB-SW-1	D	Water	Filtration	
680-45579-3	SDB-SW-2	D	Water	Filtration	
680-45623-1	SDBSW-3	D	Water	Filtration	
680-45623-1MS	Matrix Spike	D	Water	Filtration	
680-45623-1MSD	Matrix Spike Duplicate	D	Water	Filtration	
680-45623-2FD	BD-1	D	Water	Filtration	
Analysis Batch:640-55057					
LCS 640-54967/2-A	Lab Control Sample	D	Water	8316	640-54967
LCSD 640-54967/3-A	Lab Control Sample Duplicate	D	Water	8316	640-54967
MB 640-54967/1-A	Method Blank	D	Water	8316	640-54967
680-45579-1	VFSP-SW-1	D	Water	8316	640-54967
680-45579-2	SDB-SW-1	D	Water	8316	640-54967
680-45579-3	SDB-SW-2	D	Water	8316	640-54967
680-45623-1	SDBSW-3	D	Water	8316	640-54967
680-45623-1MS	Matrix Spike	D	Water	8316	640-54967
680-45623-1MSD	Matrix Spike Duplicate	D	Water	8316	640-54967
680-45623-2FD	BD-1	D	Water	8316	640-54967

Report Basis
D = Dissolved

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:680-133767					
LCS 680-133767/5	Lab Control Sample	T	Water	8015B	
LCSD 680-133767/6	Lab Control Sample Duplicate	T	Water	8015B	
MB 680-133767/9	Method Blank	T	Water	8015B	
680-45579-1	VFSP-SW-1	T	Water	8015B	
680-45579-2	SDB-SW-1	T	Water	8015B	
680-45579-3	SDB-SW-2	T	Water	8015B	
680-45623-1	SDBSW-3	T	Water	8015B	
680-45623-1MS	Matrix Spike	T	Water	8015B	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	8015B	
680-45623-2FD	BD-1	T	Water	8015B	
Analysis Batch:680-133849					
LCS 680-133849/12	Lab Control Sample	T	Water	8015B	
LCSD 680-133849/13	Lab Control Sample Duplicate	T	Water	8015B	
MB 680-133849/14	Method Blank	T	Water	8015B	
680-45579-1	VFSP-SW-1	T	Water	8015B	
680-45579-2	SDB-SW-1	T	Water	8015B	
680-45579-3	SDB-SW-2	T	Water	8015B	
680-45623-1	SDBSW-3	T	Water	8015B	
680-45623-1MS	Matrix Spike	T	Water	8015B	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	8015B	
680-45623-2FD	BD-1	T	Water	8015B	
Analysis Batch:680-133851					
LCS 680-133851/12	Lab Control Sample	T	Water	8015B	
LCSD 680-133851/13	Lab Control Sample Duplicate	T	Water	8015B	
MB 680-133851/14	Method Blank	T	Water	8015B	
680-45579-1	VFSP-SW-1	T	Water	8015B	
680-45579-2	SDB-SW-1	T	Water	8015B	
680-45579-3	SDB-SW-2	T	Water	8015B	
680-45623-1	SDBSW-3	T	Water	8015B	
680-45623-1MS	Matrix Spike	T	Water	8015B	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	8015B	
680-45623-2FD	BD-1	T	Water	8015B	
Analysis Batch:680-133900					
LCS 680-133900/7	Lab Control Sample	T	Water	8015B	
LCSD 680-133900/8	Lab Control Sample Duplicate	T	Water	8015B	
MB 680-133900/9	Method Blank	T	Water	8015B	
680-45579-1	VFSP-SW-1	T	Water	8015B	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:680-133922					
LCS 680-133922/11	Lab Control Sample	T	Water	8015B	
LCSD 680-133922/12	Lab Control Sample Duplicate	T	Water	8015B	
MB 680-133922/13	Method Blank	T	Water	8015B	
680-45579-1	VFSP-SW-1	T	Water	8015B	
680-45579-2	SDB-SW-1	T	Water	8015B	
680-45579-3	SDB-SW-2	T	Water	8015B	
Analysis Batch:680-134041					
LCS 680-134041/6	Lab Control Sample	T	Water	8015B	
LCSD 680-134041/7	Lab Control Sample Duplicate	T	Water	8015B	
MB 680-134041/8	Method Blank	T	Water	8015B	
680-45623-1	SDBSW-3	T	Water	8015B	
680-45623-1MS	Matrix Spike	T	Water	8015B	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	8015B	
680-45623-2FD	BD-1	T	Water	8015B	

Report Basis
T = Total

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-133059					
LCS 680-133059/8-A	Lab Control Sample	R	Water	3005A	
MB 680-133059/7-A	Method Blank	R	Water	3005A	
680-45579-1	VFSP-SW-1	R	Water	3005A	
680-45579-1MS	Matrix Spike	R	Water	3005A	
680-45579-1MSD	Matrix Spike Duplicate	R	Water	3005A	
680-45579-2	SDB-SW-1	R	Water	3005A	
680-45579-3	SDB-SW-2	R	Water	3005A	
Analysis Batch:680-133199					
LCS 680-133059/8-A	Lab Control Sample	R	Water	6020	680-133059
MB 680-133059/7-A	Method Blank	R	Water	6020	680-133059
680-45579-1	VFSP-SW-1	R	Water	6020	680-133059
680-45579-1MS	Matrix Spike	R	Water	6020	680-133059
680-45579-1MSD	Matrix Spike Duplicate	R	Water	6020	680-133059
680-45579-2	SDB-SW-1	R	Water	6020	680-133059
680-45579-3	SDB-SW-2	R	Water	6020	680-133059
Prep Batch: 680-133353					
LCS 680-133353/21-A	Lab Control Sample	R	Water	3005A	
MB 680-133353/20-A	Method Blank	R	Water	3005A	
680-45623-1	SDBSW-3	R	Water	3005A	
680-45623-1MS	Matrix Spike	R	Water	3005A	
680-45623-1MSD	Matrix Spike Duplicate	R	Water	3005A	
680-45623-2FD	BD-1	R	Water	3005A	
Analysis Batch:680-133669					
LCS 680-133353/21-A	Lab Control Sample	R	Water	6020	680-133353
MB 680-133353/20-A	Method Blank	R	Water	6020	680-133353
680-45623-1	SDBSW-3	R	Water	6020	680-133353
680-45623-1MS	Matrix Spike	R	Water	6020	680-133353
680-45623-1MSD	Matrix Spike Duplicate	R	Water	6020	680-133353
680-45623-2FD	BD-1	R	Water	6020	680-133353
Analysis Batch:680-133684					
LCS 680-133353/21-A	Lab Control Sample	R	Water	6020	680-133353
MB 680-133353/20-A	Method Blank	R	Water	6020	680-133353
680-45623-1	SDBSW-3	R	Water	6020	680-133353
680-45623-1MS	Matrix Spike	R	Water	6020	680-133353
680-45623-1MSD	Matrix Spike Duplicate	R	Water	6020	680-133353
680-45623-2FD	BD-1	R	Water	6020	680-133353

Report Basis
R = Total Recoverable

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:680-133358					
LCS 680-133358/2	Lab Control Sample	T	Water	353.2	
MB 680-133358/1	Method Blank	T	Water	353.2	
680-45579-1	VFSP-SW-1	T	Water	353.2	
680-45579-2	SDB-SW-1	T	Water	353.2	
680-45579-3	SDB-SW-2	T	Water	353.2	
Analysis Batch:680-133531					
LCS 680-133531/2	Lab Control Sample	T	Water	9060	
MB 680-133531/1	Method Blank	T	Water	9060	
680-45579-1	VFSP-SW-1	T	Water	9060	
680-45579-2	SDB-SW-1	T	Water	9060	
680-45579-3	SDB-SW-2	T	Water	9060	
680-45623-1	SDBSW-3	T	Water	9060	
680-45623-1MS	Matrix Spike	T	Water	9060	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	9060	
680-45623-2FD	BD-1	T	Water	9060	
Prep Batch: 680-133620					
LCS 680-133620/2-A	Lab Control Sample	T	Water	351.2	
MB 680-133620/1-A	Method Blank	T	Water	351.2	
680-45579-1	VFSP-SW-1	T	Water	351.2	
680-45579-1MS	Matrix Spike	T	Water	351.2	
680-45579-1MSD	Matrix Spike Duplicate	T	Water	351.2	
680-45579-2	SDB-SW-1	T	Water	351.2	
680-45579-3	SDB-SW-2	T	Water	351.2	
Analysis Batch:680-133682					
LCS 680-133682/2	Lab Control Sample	T	Water	353.2	
MB 680-133682/1	Method Blank	T	Water	353.2	
680-45623-1	SDBSW-3	T	Water	353.2	
680-45623-1MS	Matrix Spike	T	Water	353.2	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	353.2	
680-45623-2FD	BD-1	T	Water	353.2	
Analysis Batch:680-133683					
LCS 680-133683/2	Lab Control Sample	T	Water	353.2	
MB 680-133683/1	Method Blank	T	Water	353.2	
680-45579-1	VFSP-SW-1	T	Water	353.2	
680-45579-2	SDB-SW-1	T	Water	353.2	
680-45579-3	SDB-SW-2	T	Water	353.2	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:680-133803					
LCS 680-133620/2-A	Lab Control Sample	T	Water	351.2	680-133620
MB 680-133620/1-A	Method Blank	T	Water	351.2	680-133620
680-45579-1	VFSP-SW-1	T	Water	351.2	680-133620
680-45579-1MS	Matrix Spike	T	Water	351.2	680-133620
680-45579-1MSD	Matrix Spike Duplicate	T	Water	351.2	680-133620
680-45579-2	SDB-SW-1	T	Water	351.2	680-133620
680-45579-3	SDB-SW-2	T	Water	351.2	680-133620
Analysis Batch:680-133903					
LCS 680-133903/2	Lab Control Sample	T	Water	353.2	
MB 680-133903/1	Method Blank	T	Water	353.2	
680-45623-1	SDBSW-3	T	Water	353.2	
680-45623-1MS	Matrix Spike	T	Water	353.2	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	353.2	
680-45623-2FD	BD-1	T	Water	353.2	
Analysis Batch:680-134020					
LCS 680-134020/2	Lab Control Sample	T	Water	375.4	
MB 680-134020/1	Method Blank	T	Water	375.4	
680-45579-1	VFSP-SW-1	T	Water	375.4	
680-45579-2	SDB-SW-1	T	Water	375.4	
680-45579-3	SDB-SW-2	T	Water	375.4	
680-45623-1	SDBSW-3	T	Water	375.4	
680-45623-1MS	Matrix Spike	T	Water	375.4	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	375.4	
680-45623-2FD	BD-1	T	Water	375.4	
Analysis Batch:680-134033					
LCS 680-134033/2	Lab Control Sample	T	Water	325.2	
MB 680-134033/1	Method Blank	T	Water	325.2	
680-45579-1	VFSP-SW-1	T	Water	325.2	
680-45579-2	SDB-SW-1	T	Water	325.2	
680-45579-3	SDB-SW-2	T	Water	325.2	
680-45623-1	SDBSW-3	T	Water	325.2	
680-45623-1MS	Matrix Spike	T	Water	325.2	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	325.2	
680-45623-2FD	BD-1	T	Water	325.2	
Prep Batch: 680-136483					
LCS 680-136483/2-A	Lab Control Sample	T	Water	351.2	
MB 680-136483/1-A	Method Blank	T	Water	351.2	
680-45623-1	SDBSW-3	T	Water	351.2	
680-45623-1MS	Matrix Spike	T	Water	351.2	
680-45623-1MSD	Matrix Spike Duplicate	T	Water	351.2	
680-45623-2FD	BD-1	T	Water	351.2	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:680-136587					
LCS 680-136483/2-A	Lab Control Sample	T	Water	351.2	680-136483
MB 680-136483/1-A	Method Blank	T	Water	351.2	680-136483
680-45623-1	SDBSW-3	T	Water	351.2	680-136483
680-45623-1MS	Matrix Spike	T	Water	351.2	680-136483
680-45623-1MSD	Matrix Spike Duplicate	T	Water	351.2	680-136483
680-45623-2FD	BD-1	T	Water	351.2	680-136483

Report Basis
T = Total

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-45579-1	VFSP-SW-1	84	99	101
680-45579-2	SDB-SW-1	88	98	100
680-45579-3	SDB-SW-2	86	96	102
680-45579-4	TB-1	87	101	101
680-45623-1	SDBSW-3	87	97	102
680-45623-2	BD-1	86	96	103
680-45623-3	Trip Blank	86	97	100
680-45623-4	Trip Blank	87	100	101
MB 680-133478/7		88	101	103
LCS 680-133478/8		101	99	102
LCSD 680-133478/20		105	97	102
680-45623-1 MS	SDBSW-3 MS	101	101	97
680-45623-1 MSD	SDBSW-3 MSD	103	103	100

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec	TBP %Rec
680-45579-1	VFSP-SW-1	75	77	81	74	42	81
680-45579-2	SDB-SW-1	74	71	77	71	43	85
680-45579-3	SDB-SW-2	70	68	72	70	45	87
680-45623-1	SDBSW-3	68	58	59	56	36	82
680-45623-2	BD-1	76	70	69	68	37	83
MB 680-133018/8-A		76	80	80	79	90	80
MB 680-133386/4-A		79	76	71	69	93	79
LCS 680-133018/9-A		77	74	79	76	80	82
LCS 680-133386/5-A		79	70	75	66	78	85
LCSD 680-133018/10-A		77	68	76	70	81	87
LCSD 680-133386/6-A		74	70	73	63	76	80
680-45623-1 MS	SDBSW-3 MS	49X	47	49	47	21	58
680-45623-1 MSD	SDBSW-3 MSD	47X	46	49	46	23	60

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	50-113
2FP = 2-Fluorophenol	36-110
NBZ = Nitrobenzene-d5	45-112
PHL = Phenol-d5	38-116
TPH = Terphenyl-d14	10-121
TBP = 2,4,6-Tribromophenol	40-139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133478

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-133478/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1606
Date Prepared: 03/24/2009 1606

Analysis Batch: 680-133478
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq065.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	U	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U	1.3	5.0
Propionitrile	20	U	9.2	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133478

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-133478/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1606
Date Prepared: 03/24/2009 1606

Analysis Batch: 680-133478
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq065.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U	0.24	1.0
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	88	75 - 120
Dibromofluoromethane	101	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Method Blank TICs- Batch: 680-133478

Cas Number	Analyte	RT	Est. Result	Qual
124-38-9	Carbon Dioxide	1.04	180	T J N
	Unknown	1.35	12	T J
	Unknown	1.41	40	T J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133478

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-133478/8	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq055.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 1337			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 1337				

LCSD Lab Sample ID:	LCSD 680-133478/20	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq057.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 1409			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 1409				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	100	125	17 - 175	23	50		
Benzene	96	96	77 - 119	0	30		
Bromodichloromethane	105	107	78 - 127	2	30		
Bromoform	120	124	62 - 133	3	30		
Bromomethane	91	94	12 - 184	3	50		
Methyl Ethyl Ketone	92	104	33 - 157	13	30		
Carbon disulfide	88	82	55 - 131	7	30		
Carbon tetrachloride	117	116	71 - 135	1	30		
Chlorobenzene	103	103	85 - 116	0	30		
Chloroethane	107	85	40 - 165	24	50		
Chloroform	101	101	82 - 120	0	30		
Chloromethane	92	91	48 - 142	0	50		
Dibromochloromethane	110	112	75 - 133	2	30		
1,2-Dibromo-3-Chloropropane	101	115	49 - 140	13	30		
1,2-Dibromoethane	96	106	80 - 121	10	30		
Dibromomethane	98	104	78 - 119	6	30		
Dichlorodifluoromethane	85	83	34 - 154	3	30		
1,1-Dichloroethane	84	85	74 - 127	1	30		
1,2-Dichloroethane	98	105	66 - 132	7	30		
1,1-Dichloroethene	104	100	62 - 141	4	30		
trans-1,2-Dichloroethene	97	98	72 - 131	1	30		
1,2-Dichloropropane	99	102	73 - 124	3	30		
cis-1,3-Dichloropropene	105	110	76 - 126	5	30		
trans-1,3-Dichloropropene	110	117	73 - 128	7	30		
Ethylbenzene	101	100	86 - 116	1	30		
2-Hexanone	114	127	34 - 161	11	30		
Methylene Chloride	95	97	70 - 125	2	30		
methyl isobutyl ketone	102	113	40 - 151	11	30		
Styrene	106	106	82 - 122	0	30		
1,1,1,2-Tetrachloroethane	116	116	81 - 128	0	30		
1,1,2,2-Tetrachloroethane	97	105	69 - 129	8	30		
Tetrachloroethene	99	99	76 - 126	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133478

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-133478/8	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq055.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 1337			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 1337				

LCSD Lab Sample ID:	LCSD 680-133478/20	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	pq057.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 1409			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 1409				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toluene	101	102	81 - 117	0	30		
1,1,1-Trichloroethane	102	97	76 - 127	5	30		
1,1,2-Trichloroethane	97	105	75 - 121	8	30		
Trichloroethylene	99	99	84 - 115	0	30		
Trichlorofluoromethane	102	98	58 - 149	4	50		
1,2,3-Trichloropropane	103	111	70 - 130	7	30		
Vinyl acetate	113	121	10 - 217	7	30		
Vinyl chloride	94	89	59 - 144	5	50		
Xylenes, Total	104	103	84 - 118	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	105	75 - 120
Dibromofluoromethane	99	97	75 - 121
Toluene-d8 (Surr)	102	102	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133478

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	p0025.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 2202			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 2202				

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	p0027.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 2231			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 2231				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	93	89	17 - 175	4	50		
Benzene	94	97	77 - 119	3	30		
Bromodichloromethane	94	97	78 - 127	3	30		
Bromoform	99	102	62 - 133	3	30		
Bromomethane	67	90	12 - 184	29	50		
Methyl Ethyl Ketone	91	90	33 - 157	1	30		
Carbon disulfide	91	93	55 - 131	3	30		
Carbon tetrachloride	97	102	71 - 135	4	30		
Chlorobenzene	103	105	85 - 116	2	30		
Chloroethane	104	104	40 - 165	0	50		
Chloroform	106	107	82 - 120	1	30		
Chloromethane	84	97	48 - 142	14	50		
Dibromochloromethane	100	100	75 - 133	0	30		
1,2-Dibromo-3-Chloropropane	89	98	49 - 140	10	30		
1,2-Dibromoethane	91	94	80 - 121	2	30		
Dibromomethane	96	95	78 - 119	0	30		
Dichlorodifluoromethane	86	89	34 - 154	3	30		
1,1-Dichloroethane	88	91	74 - 127	4	30		
1,2-Dichloroethane	94	94	66 - 132	0	30		
1,1-Dichloroethene	112	113	62 - 141	2	30		
trans-1,2-Dichloroethene	100	107	72 - 131	7	30		
1,2-Dichloropropane	96	99	73 - 124	3	30		
cis-1,3-Dichloropropene	93	96	76 - 126	3	30		
trans-1,3-Dichloropropene	92	95	73 - 128	3	30		
Ethylbenzene	100	104	86 - 116	4	30		
2-Hexanone	107	111	34 - 161	3	30		
Methylene Chloride	99	101	70 - 125	2	30		
methyl isobutyl ketone	98	101	40 - 151	3	30		
Styrene	101	105	82 - 122	4	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133478

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	p0025.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 2202			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 2202				

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133478	Instrument ID:	GC/MS Volatiles - P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	p0027.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2009 2231			Final Weight/Volume:	5 mL
Date Prepared:	03/24/2009 2231				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	101	103	81 - 128	2	30		
1,1,2,2-Tetrachloroethane	95	99	69 - 129	4	30		
Tetrachloroethene	100	105	76 - 126	4	30		
Toluene	98	101	81 - 117	3	30		
1,1,1-Trichloroethane	89	93	76 - 127	4	30		
1,1,2-Trichloroethane	92	95	75 - 121	3	30		
Trichloroethylene	97	100	84 - 115	2	30		
Trichlorofluoromethane	102	104	58 - 149	1	50		
1,2,3-Trichloropropane	99	102	70 - 130	3	30		
Vinyl acetate	104	110	10 - 217	6	30		
Vinyl chloride	90	97	59 - 144	8	50		
Xylenes, Total	102	107	84 - 118	4	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	103	75 - 120
Dibromofluoromethane	101	103	75 - 121
Toluene-d8 (Surr)	97	100	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133018

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-133018/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1813
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133667
Prep Batch: 680-133018
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5741.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	0.50	10
Acenaphthylene	10	U	0.50	10
Acetophenone	10	U	0.50	10
2-Acetylaminofluorene	10	U	0.56	10
4-Aminobiphenyl	10	U	0.50	10
Aniline	20	U	8.6	20
Anthracene	10	U	0.50	10
Aramite, Total	10	U	0.53	10
Benzo[a]anthracene	10	U	0.50	10
Benzo[b]fluoranthene	10	U	0.67	10
Benzo[k]fluoranthene	10	U	0.50	10
Benzo[g,h,i]perylene	10	U	0.67	10
Benzo[a]pyrene	10	U	0.50	10
Benzyl alcohol	10	U	0.80	10
4-Bromophenyl phenyl ether	10	U	0.50	10
Butyl benzyl phthalate	10	U	0.74	10
2-sec-Butyl-4,6-dinitrophenol	10	U	5.0	10
4-Chloroaniline	20	U	4.8	20
Bis(2-chloroethoxy)methane	10	U	0.50	10
Bis(2-chloroethyl)ether	10	U	0.59	10
2,2'-oxybis[1-chloropropane]	10	U	0.50	10
Bis(2-ethylhexyl) phthalate	10	U	0.94	10
4-Chloro-3-methylphenol	10	U	0.52	10
2-Chloronaphthalene	10	U	0.50	10
2-Chlorophenol	10	U	1.0	10
4-Chlorophenyl phenyl ether	10	U	1.0	10
Chrysene	10	U	0.50	10
Diallate	10	U	0.35	10
Dibenz(a,h)anthracene	10	U	0.50	10
Dibenzofuran	10	U	0.50	10
Di-n-butyl phthalate	10	U	0.50	10
1,2-Dichlorobenzene	10	U	0.50	10
1,3-Dichlorobenzene	10	U	0.50	10
1,4-Dichlorobenzene	10	U	0.50	10
3,3'-Dichlorobenzidine	20	U	3.2	20
2,4-Dichlorophenol	10	U	1.0	10
2,6-Dichlorophenol	10	U	0.50	10
Diethyl phthalate	10	U	0.50	10
Dimethoate	10	U	0.63	10
p-Dimethylamino azobenzene	10	U	0.60	10
7,12-Dimethylbenz(a)anthracene	10	U	1.0	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133018

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-133018/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1813
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133667
Prep Batch: 680-133018
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5741.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
3,3'-Dimethylbenzidine	20	U	0.50	20
alpha,alpha-Dimethyl phenethylamine	2000	U	10	2000
2,4-Dimethylphenol	10	U	1.1	10
Dimethyl phthalate	10	U	5.0	10
m-Dinitrobenzene	10	U	0.57	10
4,6-Dinitro-2-methylphenol	50	U	5.0	50
2,4-Dinitrophenol	50	U	10	50
2,4-Dinitrotoluene	10	U	0.50	10
2,6-Dinitrotoluene	10	U	0.50	10
Di-n-octyl phthalate	10	U	0.76	10
1,4-Dioxane	10	U	2.6	10
Ethyl methanesulfonate	10	U	0.56	10
Fluoranthene	10	U	0.50	10
Fluorene	10	U	0.50	10
Hexachlorobenzene	10	U	0.50	10
Hexachlorobutadiene	10	U	5.0	10
Hexachlorocyclopentadiene	10	U	5.0	10
Hexachloroethane	10	U	0.50	10
Hexachlorophene	5000	U	40	5000
Hexachloropropene	10	U	0.50	10
Indeno[1,2,3-cd]pyrene	10	U	0.86	10
Isophorone	10	U	0.50	10
Isosafrole	10	U	0.31	10
Methapyrilene	2000	U	5.0	2000
3-Methylcholanthrene	10	U	0.50	10
Methyl methanesulfonate	10	U	0.50	10
2-Methylnaphthalene	10	U	0.50	10
2-Methylphenol	10	U	0.64	10
3 & 4 Methylphenol	10	U	1.0	10
Naphthalene	10	U	0.50	10
1-Naphthalenamine	10	U	0.50	10
2-Naphthalenamine	10	U	1.0	10
1,4-Naphthoquinone	10	U	1.0	10
2-Nitroaniline	50	U	5.0	50
3-Nitroaniline	50	U	2.8	50
4-Nitroaniline	50	U	2.0	50
Nitrobenzene	10	U	0.50	10
2-Nitrophenol	10	U	5.0	10
4-Nitrophenol	50	U	10	50
4-Nitroquinoline-1-oxide	20	U	5.0	20
N-Nitrosodi-n-butylamine	10	U	1.0	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133018

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-133018/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1813
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133667
Prep Batch: 680-133018
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5741.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodiethylamine	10	U	0.50	10
N-Nitrosodimethylamine	10	U	1.2	10
N-Nitrosodiphenylamine	10	U	0.73	10
N-Nitrosodi-n-propylamine	10	U	0.50	10
N-Nitrosomethylethylamine	10	U	5.0	10
N-Nitrosomorpholine	10	U	0.59	10
N-Nitrosopiperidine	10	U	1.0	10
N-Nitrosopyrrolidine	10	U	1.0	10
5-Nitro-o-toluidine	10	U	1.0	10
Pentachlorobenzene	10	U	0.57	10
Pentachloronitrobenzene	10	U	1.0	10
Pentachlorophenol	50	U	5.0	50
Phenacetin	10	U	0.50	10
Phenanthrene	10	U	0.50	10
Phenol	10	U	0.50	10
p-Phenylene diamine	2000	U	10	2000
2-Picoline	10	U	0.67	10
Pronamide	10	U	1.0	10
Pyrene	10	U	0.50	10
Pyridine	50	U	10	50
Safrole, Total	10	U	0.50	10
1,2,4,5-Tetrachlorobenzene	10	U	0.51	10
2,3,4,6-Tetrachlorophenol	10	U	0.50	10
o-Toluidine	10	U	0.50	10
1,2,4-Trichlorobenzene	10	U	0.71	10
2,4,5-Trichlorophenol	10	U	0.80	10
2,4,6-Trichlorophenol	10	U	0.50	10
o,o',o''-Triethylphosphorothioate	10	U	0.79	10
1,3,5-Trinitrobenzene	10	U	5.0	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	76	50 - 113
2-Fluorophenol	80	36 - 110
Nitrobenzene-d5	80	45 - 112
Phenol-d5	79	38 - 116
Terphenyl-d14	90	10 - 121
2,4,6-Tribromophenol	80	40 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank TICs- Batch: 680-133018

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown Aldol Condensate	3.63	30	T A J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133018

Method: 8270C
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-133018/9-A	Analysis Batch:	680-133525	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133018	Lab File ID:	g5704.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/24/2009 1920			Final Weight/Volume:	1 mL
Date Prepared:	03/19/2009 1235			Injection Volume:	1.0 uL

LCSD Lab Sample ID:	LCSD 680-133018/10-A	Analysis Batch:	680-133430	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133018	Lab File ID:	g5696.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/23/2009 1441			Final Weight/Volume:	1 mL
Date Prepared:	03/19/2009 1235			Injection Volume:	1.0 uL

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	86	84	45 - 117	2	40		
Acenaphthylene	85	84	51 - 112	2	40		
Aniline	66	54	10 - 114	20	40		
Anthracene	89	89	52 - 116	0	40		
Benzo[a]anthracene	91	88	49 - 124	4	40		
Benzo[b]fluoranthene	93	87	46 - 126	6	40		
Benzo[k]fluoranthene	92	85	47 - 126	8	40		
Benzo[g,h,i]perylene	83	87	51 - 117	4	40		
Benzo[a]pyrene	95	93	48 - 120	2	40		
Benzyl alcohol	78	76	34 - 113	3	40		
4-Bromophenyl phenyl ether	82	83	42 - 110	1	40		
Butyl benzyl phthalate	99	111	52 - 135	11	40		
4-Chloroaniline	61	51	10 - 110	18	40		
Bis(2-chloroethoxy)methane	93	98	50 - 112	5	40		
Bis(2-chloroethyl)ether	86	91	43 - 110	6	40		
2,2'-oxybis[1-chloropropane]	84	107	42 - 110	24	40		
Bis(2-ethylhexyl) phthalate	96	113	47 - 134	16	40		
4-Chloro-3-methylphenol	84	82	46 - 118	1	40		
2-Chloronaphthalene	79	77	47 - 110	3	40		
2-Chlorophenol	76	76	47 - 110	1	40		
4-Chlorophenyl phenyl ether	91	91	46 - 114	0	40		
Chrysene	88	90	51 - 123	2	40		
Dibenz(a,h)anthracene	85	89	46 - 124	4	40		
Dibenzofuran	82	82	50 - 112	0	40		
Di-n-butyl phthalate	97	108	49 - 123	10	40		
1,2-Dichlorobenzene	65	67	39 - 110	4	40		
1,3-Dichlorobenzene	65	64	36 - 110	1	40		
1,4-Dichlorobenzene	64	66	38 - 110	3	40		
3,3'-Dichlorobenzidine	53	52	10 - 113	2	40		
2,4-Dichlorophenol	80	77	46 - 115	4	40		
Diethyl phthalate	92	100	51 - 119	8	40		
2,4-Dimethylphenol	67	63	36 - 110	7	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133018

Method: 8270C
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-133018/9-A	Analysis Batch:	680-133525	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133018	Lab File ID:	g5704.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/24/2009 1920			Final Weight/Volume:	1 mL
Date Prepared:	03/19/2009 1235			Injection Volume:	1.0 uL

LCSD Lab Sample ID:	LCSD 680-133018/10-A	Analysis Batch:	680-133430	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133018	Lab File ID:	g5696.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/23/2009 1441			Final Weight/Volume:	1 mL
Date Prepared:	03/19/2009 1235			Injection Volume:	1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dimethyl phthalate	92	95	50 - 116	3	40		
4,6-Dinitro-2-methylphenol	91	90	29 - 167	1	40		
2,4-Dinitrophenol	94	89	10 - 189	5	40		
2,4-Dinitrotoluene	85	86	49 - 128	1	40		
2,6-Dinitrotoluene	83	87	45 - 131	5	40		
Di-n-octyl phthalate	99	112	44 - 134	13	40		
1,4-Dioxane	49	50	11 - 110	1	40		
Fluoranthene	90	89	50 - 120	1	40		
Fluorene	86	87	50 - 115	1	40		
Hexachlorobenzene	84	87	48 - 119	4	40		
Hexachlorobutadiene	70	76	40 - 110	8	40		
Hexachlorocyclopentadiene	20	21	10 - 110	5	40		
Hexachloroethane	63	67	33 - 110	6	40		
Indeno[1,2,3-cd]pyrene	82	87	40 - 126	5	40		
Isophorone	77	82	50 - 111	5	40		
2-Methylnaphthalene	77	79	46 - 110	2	40		
2-Methylphenol	78	74	46 - 110	6	40		
3 & 4 Methylphenol	78	75	43 - 110	4	40		
Naphthalene	78	78	41 - 110	0	40		
2-Nitroaniline	84	85	45 - 122	0	40		
3-Nitroaniline	79	71	30 - 116	11	40		
4-Nitroaniline	80	74	36 - 125	8	40		
Nitrobenzene	75	73	46 - 110	4	40		
2-Nitrophenol	81	81	42 - 120	0	40		
4-Nitrophenol	76	83	30 - 122	8	40		
N-Nitrosodimethylamine	85	74	33 - 110	13	40		
N-Nitrosodiphenylamine	90	87	47 - 119	4	40		
N-Nitrosodi-n-propylamine	89	92	45 - 112	4	40		
Pentachlorophenol	85	84	37 - 132	0	40		
Phenanthrene	91	88	52 - 117	3	40		
Phenol	81	75	39 - 110	7	40		
Pyrene	92	90	52 - 125	3	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133018

Method: 8270C
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-133018/9-A	Analysis Batch:	680-133525	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133018	Lab File ID:	g5704.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/24/2009 1920			Final Weight/Volume:	1 mL
Date Prepared:	03/19/2009 1235			Injection Volume:	1.0 uL

LCSD Lab Sample ID:	LCSD 680-133018/10-A	Analysis Batch:	680-133430	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133018	Lab File ID:	g5696.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/23/2009 1441			Final Weight/Volume:	1 mL
Date Prepared:	03/19/2009 1235			Injection Volume:	1.0 uL

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pyridine	61	54	10 - 110	13	40		
1,2,4-Trichlorobenzene	68	71	41 - 110	4	40		
2,4,5-Trichlorophenol	82	83	47 - 122	0	40		
2,4,6-Trichlorophenol	81	79	46 - 120	2	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	77	77	50 - 113
2-Fluorophenol	74	68	36 - 110
Nitrobenzene-d5	79	76	45 - 112
Phenol-d5	76	70	38 - 116
Terphenyl-d14	80	81	10 - 121
2,4,6-Tribromophenol	82	87	40 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133386

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-133386/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1948
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5761.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	0.50	10
Acenaphthylene	10	U	0.50	10
Acetophenone	10	U	0.50	10
2-Acetylaminofluorene	10	U	0.56	10
4-Aminobiphenyl	10	U	0.50	10
Aniline	20	U	8.6	20
Anthracene	10	U	0.50	10
Aramite, Total	10	U	0.53	10
Benzo[a]anthracene	10	U	0.50	10
Benzo[b]fluoranthene	10	U	0.67	10
Benzo[k]fluoranthene	10	U	0.50	10
Benzo[g,h,i]perylene	10	U	0.67	10
Benzo[a]pyrene	10	U	0.50	10
Benzyl alcohol	10	U	0.80	10
4-Bromophenyl phenyl ether	10	U	0.50	10
Butyl benzyl phthalate	10	U	0.74	10
2-sec-Butyl-4,6-dinitrophenol	10	U	5.0	10
4-Chloroaniline	20	U	4.8	20
Bis(2-chloroethoxy)methane	10	U	0.50	10
Bis(2-chloroethyl)ether	10	U	0.59	10
2,2'-oxybis[1-chloropropane]	10	U	0.50	10
Bis(2-ethylhexyl) phthalate	10	U	0.94	10
4-Chloro-3-methylphenol	10	U	0.52	10
2-Chloronaphthalene	10	U	0.50	10
2-Chlorophenol	10	U	1.0	10
4-Chlorophenyl phenyl ether	10	U	1.0	10
Chrysene	10	U	0.50	10
Diallate	10	U	0.35	10
Dibenz(a,h)anthracene	10	U	0.50	10
Dibenzofuran	10	U	0.50	10
Di-n-butyl phthalate	10	U	0.50	10
1,2-Dichlorobenzene	10	U	0.50	10
1,3-Dichlorobenzene	10	U	0.50	10
1,4-Dichlorobenzene	10	U	0.50	10
3,3'-Dichlorobenzidine	20	U	3.2	20
2,4-Dichlorophenol	10	U	1.0	10
2,6-Dichlorophenol	10	U	0.50	10
Diethyl phthalate	10	U	0.50	10
Dimethoate	10	U	0.63	10
p-Dimethylamino azobenzene	10	U	0.60	10
7,12-Dimethylbenz(a)anthracene	10	U	1.0	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133386

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-133386/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1948
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5761.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
3,3'-Dimethylbenzidine	20	U	0.50	20
alpha,alpha-Dimethyl phenethylamine	2000	U	10	2000
2,4-Dimethylphenol	10	U	1.1	10
Dimethyl phthalate	10	U	5.0	10
m-Dinitrobenzene	10	U	0.57	10
4,6-Dinitro-2-methylphenol	50	U	5.0	50
2,4-Dinitrophenol	50	U	10	50
2,4-Dinitrotoluene	10	U	0.50	10
2,6-Dinitrotoluene	10	U	0.50	10
Di-n-octyl phthalate	10	U	0.76	10
1,4-Dioxane	10	U	2.6	10
Ethyl methanesulfonate	10	U	0.56	10
Fluoranthene	10	U	0.50	10
Fluorene	10	U	0.50	10
Hexachlorobenzene	10	U	0.50	10
Hexachlorobutadiene	10	U	5.0	10
Hexachlorocyclopentadiene	10	U	5.0	10
Hexachloroethane	10	U	0.50	10
Hexachlorophene	5000	U	40	5000
Hexachloropropene	10	U	0.50	10
Indeno[1,2,3-cd]pyrene	10	U	0.86	10
Isophorone	10	U	0.50	10
Isosafrole	10	U	0.31	10
Methapyrilene	2000	U	5.0	2000
3-Methylcholanthrene	10	U	0.50	10
Methyl methanesulfonate	10	U	0.50	10
2-Methylnaphthalene	10	U	0.50	10
2-Methylphenol	10	U	0.64	10
3 & 4 Methylphenol	10	U	1.0	10
Naphthalene	10	U	0.50	10
1-Naphthalenamine	10	U	0.50	10
2-Naphthalenamine	10	U	1.0	10
1,4-Naphthoquinone	10	U	1.0	10
2-Nitroaniline	50	U	5.0	50
3-Nitroaniline	50	U	2.8	50
4-Nitroaniline	50	U	2.0	50
Nitrobenzene	10	U	0.50	10
2-Nitrophenol	10	U	5.0	10
4-Nitrophenol	50	U	10	50
4-Nitroquinoline-1-oxide	20	U	5.0	20
N-Nitrosodi-n-butylamine	10	U	1.0	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133386

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-133386/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1948
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5761.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodiethylamine	10	U	0.50	10
N-Nitrosodimethylamine	10	U	1.2	10
N-Nitrosodiphenylamine	10	U	0.73	10
N-Nitrosodi-n-propylamine	10	U	0.50	10
N-Nitrosomethylethylamine	10	U	5.0	10
N-Nitrosomorpholine	10	U	0.59	10
N-Nitrosopiperidine	10	U	1.0	10
N-Nitrosopyrrolidine	10	U	1.0	10
5-Nitro-o-toluidine	10	U	1.0	10
Pentachlorobenzene	10	U	0.57	10
Pentachloronitrobenzene	10	U	1.0	10
Pentachlorophenol	50	U	5.0	50
Phenacetin	10	U	0.50	10
Phenanthrene	10	U	0.50	10
Phenol	10	U	0.50	10
p-Phenylene diamine	2000	U	10	2000
2-Picoline	10	U	0.67	10
Pronamide	10	U	1.0	10
Pyrene	10	U	0.50	10
Pyridine	50	U	10	50
Safrole, Total	10	U	0.50	10
1,2,4,5-Tetrachlorobenzene	10	U	0.51	10
2,3,4,6-Tetrachlorophenol	10	U	0.50	10
o-Toluidine	10	U	0.50	10
1,2,4-Trichlorobenzene	10	U	0.71	10
2,4,5-Trichlorophenol	10	U	0.80	10
2,4,6-Trichlorophenol	10	U	0.50	10
o,o',o''-Triethylphosphorothioate	10	U	0.79	10
1,3,5-Trinitrobenzene	10	U	5.0	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	79	50 - 113
2-Fluorophenol	76	36 - 110
Nitrobenzene-d5	71	45 - 112
Phenol-d5	69	38 - 116
Terphenyl-d14	93	10 - 121
2,4,6-Tribromophenol	79	40 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank TICs- Batch: 680-133386

Cas Number	Analyte	RT	Est. Result	Qual
298-04-4	Disulfoton	8.97	1.3	J
791-28-6	Phosphine oxide, triphenyl-	11.35	8.9	T J N
	Unknown	4.50	6.2	T J
	Unknown Aldol Condensate	3.62	31	T A J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133386

Method: 8270C
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-133386/5-A	Analysis Batch:	680-133680	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5762.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/26/2009 2011			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

LCSD Lab Sample ID:	LCSD 680-133386/6-A	Analysis Batch:	680-133680	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5763.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/26/2009 2034			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	83	78	45 - 117	6	40		
Acenaphthylene	83	77	51 - 112	8	40		
Aniline	64	51	10 - 114	24	40		
Anthracene	88	79	52 - 116	11	40		
Benzo[a]anthracene	89	84	49 - 124	6	40		
Benzo[b]fluoranthene	85	83	46 - 126	2	40		
Benzo[k]fluoranthene	94	86	47 - 126	9	40		
Benzo[g,h,i]perylene	86	81	51 - 117	6	40		
Benzo[a]pyrene	92	87	48 - 120	6	40		
Benzyl alcohol	67	66	34 - 113	2	40		
4-Bromophenyl phenyl ether	84	74	42 - 110	13	40		
Butyl benzyl phthalate	103	98	52 - 135	5	40		
4-Chloroaniline	64	53	10 - 110	17	40		
Bis(2-chloroethoxy)methane	91	88	50 - 112	4	40		
Bis(2-chloroethyl)ether	82	81	43 - 110	2	40		
2,2'-oxybis[1-chloropropane]	96	92	42 - 110	4	40		
Bis(2-ethylhexyl) phthalate	98	93	47 - 134	5	40		
4-Chloro-3-methylphenol	74	68	46 - 118	7	40		
2-Chloronaphthalene	79	75	47 - 110	6	40		
2-Chlorophenol	73	73	47 - 110	0	40		
4-Chlorophenyl phenyl ether	89	82	46 - 114	8	40		
Chrysene	93	86	51 - 123	8	40		
Dibenz(a,h)anthracene	85	81	46 - 124	5	40		
Dibenzofuran	80	75	50 - 112	6	40		
Di-n-butyl phthalate	101	92	49 - 123	10	40		
1,2-Dichlorobenzene	68	69	39 - 110	1	40		
1,3-Dichlorobenzene	66	67	36 - 110	0	40		
1,4-Dichlorobenzene	67	68	38 - 110	1	40		
3,3'-Dichlorobenzidine	73	61	10 - 113	17	40		
2,4-Dichlorophenol	75	72	46 - 115	4	40		
Diethyl phthalate	94	86	51 - 119	9	40		
2,4-Dimethylphenol	59	61	36 - 110	5	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133386

Method: 8270C
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-133386/5-A	Analysis Batch:	680-133680	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5762.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/26/2009 2011			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

LCSD Lab Sample ID:	LCSD 680-133386/6-A	Analysis Batch:	680-133680	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5763.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/26/2009 2034			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dimethyl phthalate	92	84	50 - 116	9	40		
4,6-Dinitro-2-methylphenol	87	84	29 - 167	3	40		
2,4-Dinitrophenol	79	82	10 - 189	3	40		
2,4-Dinitrotoluene	80	77	49 - 128	4	40		
2,6-Dinitrotoluene	82	77	45 - 131	6	40		
Di-n-octyl phthalate	101	94	44 - 134	7	40		
1,4-Dioxane	58	52	11 - 110	10	40		
Fluoranthene	91	82	50 - 120	10	40		
Fluorene	84	78	50 - 115	7	40		
Hexachlorobenzene	87	78	48 - 119	12	40		
Hexachlorobutadiene	73	72	40 - 110	2	40		
Hexachlorocyclopentadiene	27	26	10 - 110	3	40		
Hexachloroethane	66	68	33 - 110	2	40		
Indeno[1,2,3-cd]pyrene	91	81	40 - 126	12	40		
Isophorone	75	71	50 - 111	6	40		
2-Methylnaphthalene	75	71	46 - 110	5	40		
2-Methylphenol	71	69	46 - 110	3	40		
3 & 4 Methylphenol	66	64	43 - 110	3	40		
Naphthalene	75	73	41 - 110	2	40		
2-Nitroaniline	78	72	45 - 122	8	40		
3-Nitroaniline	75	61	30 - 116	20	40		
4-Nitroaniline	76	72	36 - 125	5	40		
Nitrobenzene	70	69	46 - 110	1	40		
2-Nitrophenol	78	77	42 - 120	1	40		
4-Nitrophenol	79	63	30 - 122	23	40		
N-Nitrosodimethylamine	80	81	33 - 110	1	40		
N-Nitrosodiphenylamine	92	82	47 - 119	12	40		
N-Nitrosodi-n-propylamine	82	79	45 - 112	4	40		
Pentachlorophenol	80	74	37 - 132	9	40		
Phenanthrene	90	81	52 - 117	10	40		
Phenol	70	66	39 - 110	6	40		
Pyrene	85	82	52 - 125	3	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133386

Method: 8270C
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-133386/5-A	Analysis Batch:	680-133680	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5762.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/26/2009 2011			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

LCSD Lab Sample ID:	LCSD 680-133386/6-A	Analysis Batch:	680-133680	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5763.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	03/26/2009 2034			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pyridine	58	57	10 - 110	2	40		
1,2,4-Trichlorobenzene	71	70	41 - 110	0	40		
2,4,5-Trichlorophenol	80	75	47 - 122	6	40		
2,4,6-Trichlorophenol	80	75	46 - 120	7	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	79	74	50 - 113
2-Fluorophenol	70	70	36 - 110
Nitrobenzene-d5	75	73	45 - 112
Phenol-d5	66	63	38 - 116
Terphenyl-d14	78	76	10 - 121
2,4,6-Tribromophenol	85	80	40 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133386

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-45623-1	Analysis Batch: 680-133763	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-133386	Lab File ID: g5774a.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	03/27/2009 1443		Final Weight/Volume: 1 mL
Date Prepared:	03/24/2009 1130		Injection Volume: 1.0 uL

MSD Lab Sample ID:	680-45623-1	Analysis Batch: 680-133763	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-133386	Lab File ID: g5775.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	03/27/2009 1421		Final Weight/Volume: 1 mL
Date Prepared:	03/24/2009 1130		Injection Volume: 1.0 uL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	53	53	45 - 117	0	40		
Acenaphthylene	51	52	51 - 112	2	40		
Aniline	19	23	10 - 114	18	40	J	
Anthracene	46	45	52 - 116	2	40	F	F
Benzo[a]anthracene	39	35	49 - 124	11	40	F	F
Benzo[b]fluoranthene	38	37	46 - 126	4	40	F	F
Benzo[k]fluoranthene	38	34	47 - 126	10	40	F	F
Benzo[g,h,i]perylene	36	30	51 - 117	19	40	F	F
Benzo[a]pyrene	37	32	48 - 120	16	40	F	F
Benzyl alcohol	50	51	34 - 113	1	40		
4-Bromophenyl phenyl ether	45	43	42 - 110	3	40		
Butyl benzyl phthalate	50	46	52 - 135	9	40	F	F
4-Chloroaniline	19	28	10 - 110	41	40	J	F
Bis(2-chloroethoxy)methane	62	64	50 - 112	3	40		
Bis(2-chloroethyl)ether	59	56	43 - 110	4	40		
2,2'-oxybis[1-chloropropane]	67	67	42 - 110	0	40		
Bis(2-ethylhexyl) phthalate	42	36	47 - 134	14	40	F	F
4-Chloro-3-methylphenol	51	57	46 - 118	11	40		
2-Chloronaphthalene	50	49	47 - 110	2	40		
2-Chlorophenol	50	50	47 - 110	0	40		
4-Chlorophenyl phenyl ether	51	52	46 - 114	2	40		
Chrysene	37	34	51 - 123	11	40	F	F
Dibenz(a,h)anthracene	36	30	46 - 124	18	40	F	F
Dibenzofuran	52	52	50 - 112	1	40		
Di-n-butyl phthalate	52	49	49 - 123	6	40		
1,2-Dichlorobenzene	47	48	39 - 110	1	40		
1,3-Dichlorobenzene	48	47	36 - 110	2	40		
1,4-Dichlorobenzene	49	47	38 - 110	3	40		
3,3'-Dichlorobenzidine	0	0	10 - 113	NC	40	U F	U F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133386

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-45623-1	Analysis Batch: 680-133763	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-133386	Lab File ID: g5774a.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	03/27/2009 1443		Final Weight/Volume: 1 mL
Date Prepared:	03/24/2009 1130		Injection Volume: 1.0 uL

MSD Lab Sample ID:	680-45623-1	Analysis Batch: 680-133763	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-133386	Lab File ID: g5775.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	03/27/2009 1421		Final Weight/Volume: 1 mL
Date Prepared:	03/24/2009 1130		Injection Volume: 1.0 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4-Dichlorophenol	49	53	46 - 115	8	40		
Diethyl phthalate	59	63	51 - 119	6	40		
2,4-Dimethylphenol	54	57	36 - 110	5	40		
Dimethyl phthalate	59	62	50 - 116	6	40		
4,6-Dinitro-2-methylphenol	59	59	29 - 167	0	40		
2,4-Dinitrophenol	66	68	10 - 189	2	40		
2,4-Dinitrotoluene	55	58	49 - 128	5	40		
2,6-Dinitrotoluene	55	57	45 - 131	4	40		
Di-n-octyl phthalate	41	36	44 - 134	15	40	F	F
1,4-Dioxane	35	35	11 - 110	0	40		
Fluoranthene	45	42	50 - 120	6	40	F	F
Fluorene	52	54	50 - 115	3	40		
Hexachlorobenzene	39	35	48 - 119	11	40	F	F
Hexachlorobutadiene	44	44	40 - 110	2	40		
Hexachlorocyclopentadiene	24	21	10 - 110	14	40		
Hexachloroethane	49	49	33 - 110	0	40		
Indeno[1,2,3-cd]pyrene	34	29	40 - 126	17	40	F	F
Isophorone	51	53	50 - 111	5	40		
2-Methylnaphthalene	50	53	46 - 110	5	40		
2-Methylphenol	52	51	46 - 110	3	40		
3 & 4 Methylphenol	50	50	43 - 110	1	40		
Naphthalene	52	53	41 - 110	2	40		
2-Nitroaniline	55	59	45 - 122	6	40		
3-Nitroaniline	29	44	30 - 116	41	40	J F	J F
4-Nitroaniline	42	51	36 - 125	20	40	J	
Nitrobenzene	47	48	46 - 110	2	40		
2-Nitrophenol	52	51	42 - 120	1	40		
4-Nitrophenol	28	48	30 - 122	52	40	J F	J F
N-Nitrosodimethylamine	57	54	33 - 110	4	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133386

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133763	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5774a.d
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	03/27/2009 1443			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133763	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-133386	Lab File ID:	g5775.d
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	03/27/2009 1421			Final Weight/Volume:	1 mL
Date Prepared:	03/24/2009 1130			Injection Volume:	1.0 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
N-Nitrosodiphenylamine	51	51	47 - 119	2	40		
N-Nitrosodi-n-propylamine	59	59	45 - 112	1	40		
Pentachlorophenol	54	55	37 - 132	2	40		
Phenanthrene	51	51	52 - 117	1	40	F	F
Phenol	47	46	39 - 110	1	40		
Pyrene	44	42	52 - 125	4	40	F	F
Pyridine	47	42	10 - 110	9	40	J	J
1,2,4-Trichlorobenzene	48	49	41 - 110	1	40		
2,4,5-Trichlorophenol	51	53	47 - 122	3	40		
2,4,6-Trichlorophenol	53	54	46 - 120	2	40		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
2-Fluorobiphenyl	49	X	47	X	50 - 113
2-Fluorophenol	47		46		36 - 110
Nitrobenzene-d5	49		49		45 - 112
Phenol-d5	47		46		38 - 116
Terphenyl-d14	21		23		10 - 121
2,4,6-Tribromophenol	58		60		40 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 640-54967

Method: 8316
Preparation: Filtration
Dissolved

Lab Sample ID: MB 640-54967/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1647
Date Prepared: 03/24/2009 0800

Analysis Batch: 640-55057
Prep Batch: 640-54967
Units: ug/L

Instrument ID: LCL Waters 486
Lab File ID: 2C24L7.d
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume: 50 uL

Analyte	Result	Qual	MDL	RL
Acrylamide	100	U	8.0	100

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-54967

Method: 8316
Preparation: Filtration
Dissolved

LCS Lab Sample ID: LCS 640-54967/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1656
Date Prepared: 03/24/2009 0800

Analysis Batch: 640-55057
Prep Batch: 640-54967
Units: ug/L

Instrument ID: LCL Waters 486
Lab File ID: 2C24L8.d
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume: 50 uL

LCSD Lab Sample ID: LCSD 640-54967/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1705
Date Prepared: 03/24/2009 0800

Analysis Batch: 640-55057
Prep Batch: 640-54967
Units: ug/L

Instrument ID: LCL Waters 486
Lab File ID: 2C24L9.d
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume: 50 uL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acrylamide	104	107	57 - 142	3	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-54967

Method: 8316
Preparation: Filtration
Dissolved

MS Lab Sample ID:	680-45623-1	Analysis Batch: 640-55057	Instrument ID: LCL Waters 486
Client Matrix:	Water	Prep Batch: 640-54967	Lab File ID: 2C24L11.d
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/24/2009 1722		Final Weight/Volume: 10 mL
Date Prepared:	03/24/2009 0800		Injection Volume: 50 uL

MSD Lab Sample ID:	680-45623-1	Analysis Batch: 640-55057	Instrument ID: LCL Waters 486
Client Matrix:	Water	Prep Batch: 640-54967	Lab File ID: 2C24L12.d
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/24/2009 1731		Final Weight/Volume: 10 mL
Date Prepared:	03/24/2009 0800		Injection Volume: 50 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acrylamide	97	99	58 - 134	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133767

Method: 8015B
Preparation: N/A

Lab Sample ID: MB 680-133767/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1158
Date Prepared: N/A

Analysis Batch: 680-133767
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ032707.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Ethanol	1000	U	380	1000
Isopropanol	1000	U	320	1000
Methanol	1000	U	320	1000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133767

Method: 8015B
Preparation: N/A

LCS Lab Sample ID: LCS 680-133767/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0950
Date Prepared: N/A

Analysis Batch: 680-133767
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ032703.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-133767/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1011
Date Prepared: N/A

Analysis Batch: 680-133767
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ032704.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ethanol	90	90	50 - 150	1	50		
Isopropanol	86	84	50 - 150	2	50		
Methanol	84	85	50 - 150	2	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133767

Method: 8015B
Preparation: N/A

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133767	Instrument ID:	GC Volatiles - V FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V032714.D
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/27/2009 1741			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133767	Instrument ID:	GC Volatiles - V FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V032715.D
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/27/2009 1802			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethanol	116	112	50 - 150	4	50		
Isopropanol	104	100	50 - 150	3	50		
Methanol	55	45	50 - 150	20	50		F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133849

Method: 8015B
Preparation: N/A

Lab Sample ID: MB 680-133849/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1335
Date Prepared: N/A

Analysis Batch: 680-133849
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ032709.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Ethylene glycol	5000	U	760	5000
Diethylene glycol	5000	U	500	5000
Propylene glycol	5000	U	970	5000
Ethylene glycol monobutyl ether	5000	U	500	5000
Ethylene glycol monopropyl ether	5000	U	1000	5000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133849

Method: 8015B
Preparation: N/A

LCS Lab Sample ID: LCS 680-133849/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1203
Date Prepared: N/A

Analysis Batch: 680-133849
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ032707.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-133849/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1226
Date Prepared: N/A

Analysis Batch: 680-133849
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ032708.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ethylene glycol	88	89	50 - 150	0	50		
Diethylene glycol	93	95	50 - 150	2	50		
Propylene glycol	94	95	50 - 150	1	50		
Ethylene glycol monobutyl ether	67	86	50 - 150	26	50		
Ethylene glycol monopropyl ether	82	106	50 - 150	26	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133849

Method: 8015B
Preparation: N/A

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133849	Instrument ID:	GC Volatiles - G FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G032709.D
Dilution:	1.0			Initial Weight/Volume:	1000 uL
Date Analyzed:	03/27/2009 1701			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133849	Instrument ID:	GC Volatiles - G FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G032710.D
Dilution:	1.0			Initial Weight/Volume:	1000 uL
Date Analyzed:	03/27/2009 1724			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethylene glycol	98	96	50 - 150	1	50		
Diethylene glycol	111	106	50 - 150	4	50		
Propylene glycol	113	110	50 - 150	3	50		
Ethylene glycol monobutyl ether	85	90	50 - 150	6	50		
Ethylene glycol monopropyl ether	108	114	50 - 150	5	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133851

Method: 8015B
Preparation: N/A

Lab Sample ID: MB 680-133851/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 2004
Date Prepared: N/A

Analysis Batch: 680-133851
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ032714.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Dipropylene glycol	5000	U	2600	5000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133851

Method: 8015B
Preparation: N/A

LCS Lab Sample ID: LCS 680-133851/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1832
Date Prepared: N/A

Analysis Batch: 680-133851
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ032712.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-133851/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1855
Date Prepared: N/A

Analysis Batch: 680-133851
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ032713.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dipropylene glycol	106	95	50 - 150	11	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133851

Method: 8015B
Preparation: N/A

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133851	Instrument ID:	GC Volatiles - G FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G032719.D
Dilution:	1.0			Initial Weight/Volume:	1000 uL
Date Analyzed:	03/27/2009 2330			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133851	Instrument ID:	GC Volatiles - G FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G032720.D
Dilution:	1.0			Initial Weight/Volume:	1000 uL
Date Analyzed:	03/27/2009 2353			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dipropylene glycol	102	104	50 - 150	2	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133900

Method: 8015B
Preparation: N/A

Lab Sample ID: MB 680-133900/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1243
Date Prepared: N/A

Analysis Batch: 680-133900
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ033004.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Ethylene glycol	5000	U	760	5000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133900

Method: 8015B
Preparation: N/A

LCS Lab Sample ID: LCS 680-133900/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1134
Date Prepared: N/A

Analysis Batch: 680-133900
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ033002.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-133900/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1157
Date Prepared: N/A

Analysis Batch: 680-133900
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - G FID1
Lab File ID: GQ033003.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ethylene glycol	84	91	50 - 150	8	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133922

Method: 8015B
Preparation: N/A

Lab Sample ID: MB 680-133922/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1647
Date Prepared: N/A

Analysis Batch: 680-133922
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ033009.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Allyl alcohol	1000	U	330	1000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-133922

Method: 8015B
Preparation: N/A

LCS Lab Sample ID: LCS 680-133922/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1521
Date Prepared: N/A

Analysis Batch: 680-133922
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ033007.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-133922/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1543
Date Prepared: N/A

Analysis Batch: 680-133922
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ033008.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Allyl alcohol	79	126	50 - 150	45	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-134041

Method: 8015B
Preparation: N/A

Lab Sample ID: MB 680-134041/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1532
Date Prepared: N/A

Analysis Batch: 680-134041
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ033109.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Allyl alcohol	1000	U	330	1000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-134041

Method: 8015B
Preparation: N/A

LCS Lab Sample ID: LCS 680-134041/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1406
Date Prepared: N/A

Analysis Batch: 680-134041
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ033107.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-134041/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1428
Date Prepared: N/A

Analysis Batch: 680-134041
Prep Batch: N/A
Units: ug/L

Instrument ID: GC Volatiles - V FID1
Lab File ID: VQ033108.D
Initial Weight/Volume:
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Allyl alcohol	90	104	50 - 150	14	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-134041

Method: 8015B
Preparation: N/A

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-134041	Instrument ID:	GC Volatiles - V FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V033103.D
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 1636			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-134041	Instrument ID:	GC Volatiles - V FID1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V033104.D
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 1657			Final Weight/Volume:	1 mL
Date Prepared:	N/A			Injection Volume:	1 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Allyl alcohol	126	114	50 - 150	10	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133059

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133059/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1037
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Aluminum	50	U	15	50
Antimony	2.5	U	0.36	2.5
Arsenic	2.5	U	0.28	2.5
Barium	5.0	U	2.0	5.0
Beryllium	0.50	U	0.065	0.50
Cadmium	0.50	U	0.12	0.50
Calcium	250	U	50	250
Chromium	1.0	J	0.60	5.0
Cobalt	0.50	U	0.029	0.50
Copper	5.0	U	1.2	5.0
Iron	100	U	12	100
Lead	1.5	U	0.15	1.5
Magnesium	250	U	14	250
Manganese	5.0	U	0.95	5.0
Mercury	0.50	U	0.22	0.50
Nickel	0.51	J	0.32	1.0
Potassium	250	U	40	250
Selenium	2.5	U	0.60	2.5
Silver	1.0	U	0.090	1.0
Sodium	250	U	90	250
Thallium	1.0	U	0.55	1.0
Vanadium	1.1	J	0.80	5.0
Zinc	20	U	6.5	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample - Batch: 680-133059

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133059/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1044
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	5000	4960	99	75 - 125	
Antimony	50.0	47.4	95	75 - 125	
Arsenic	100	104	104	75 - 125	
Barium	100	97.4	97	75 - 125	
Beryllium	50.0	48.9	98	75 - 125	
Cadmium	50.0	49.1	98	75 - 125	
Calcium	5000	5160	103	75 - 125	
Chromium	100	99.9	100	75 - 125	
Cobalt	50.0	46.8	94	75 - 125	
Copper	100	103	103	75 - 125	
Iron	5000	5110	102	75 - 125	
Lead	50.0	45.7	91	75 - 125	
Magnesium	5000	5090	102	75 - 125	
Manganese	500	497	99	75 - 125	
Mercury	5.00	4.48	90	75 - 125	
Nickel	100	103	103	75 - 125	
Potassium	5000	4940	99	75 - 125	
Selenium	100	103	103	75 - 125	
Silver	50.0	51.0	102	75 - 125	
Sodium	5000	5010	100	75 - 125	
Thallium	40.0	37.5	94	75 - 125	
Vanadium	100	99.4	99	75 - 125	
Zinc	100	98.2	98	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133059

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-45579-1	Analysis Batch:	680-133199	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133059	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/20/2009 1111			Final Weight/Volume:	250 mL
Date Prepared:	03/19/2009 1148				

MSD Lab Sample ID:	680-45579-1	Analysis Batch:	680-133199	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133059	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/20/2009 1117			Final Weight/Volume:	250 mL
Date Prepared:	03/19/2009 1148				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	97	98	75 - 125	1	20		
Antimony	98	99	75 - 125	1	20		
Arsenic	101	104	75 - 125	2	20		
Barium	98	103	75 - 125	4	20		
Beryllium	103	106	75 - 125	3	20		
Cadmium	100	103	75 - 125	2	20		
Calcium	97	101	75 - 125	2	20		
Chromium	99	102	75 - 125	3	20		
Cobalt	96	96	75 - 125	0	20		
Copper	104	106	75 - 125	2	20		
Iron	98	103	75 - 125	2	20		
Lead	94	94	75 - 125	0	20		
Magnesium	98	100	75 - 125	1	20		
Manganese	101	101	75 - 125	0	20		
Mercury	91	95	75 - 125	5	20		
Nickel	103	104	75 - 125	1	20		
Potassium	97	99	75 - 125	2	20		
Selenium	99	99	75 - 125	0	20		
Silver	102	104	75 - 125	2	20		
Sodium	90	93	75 - 125	2	20		
Thallium	97	98	75 - 125	1	20		
Vanadium	98	99	75 - 125	1	20		
Zinc	94	99	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 680-133353/20-A	Analysis Batch:	680-133669	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	03/24/2009 2203			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

Analyte	Result	Qual	MDL	RL
Aluminum	50	U	15	50
Antimony	2.5	U	0.36	2.5
Arsenic	2.5	U	0.28	2.5
Barium	5.0	U	2.0	5.0
Beryllium	0.50	U	0.065	0.50
Cadmium	0.50	U	0.12	0.50
Calcium	250	U	50	250
Chromium	5.0	U	0.60	5.0
Cobalt	0.50	U	0.029	0.50
Copper	5.0	U	1.2	5.0
Iron	100	U	12	100
Lead	1.5	U	0.15	1.5
Magnesium	250	U	14	250
Manganese	5.0	U	0.95	5.0
Mercury	0.50	U	0.22	0.50
Nickel	1.0	U	0.32	1.0
Selenium	2.5	U	0.60	2.5
Silver	1.0	U	0.090	1.0
Sodium	250	U	90	250
Thallium	1.0	U	0.55	1.0
Vanadium	5.0	U	0.80	5.0
Zinc	20	U	6.5	20

Method Blank - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 680-133353/20-A	Analysis Batch:	680-133684	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	03/25/2009 2052			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

Analyte	Result	Qual	MDL	RL
Potassium	250	U	40	250

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Lab Control Sample - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133353/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2210
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	5000	4890	98	75 - 125	
Antimony	50.0	47.0	94	75 - 125	
Arsenic	100	101	101	75 - 125	
Barium	100	94.5	94	75 - 125	
Beryllium	50.0	49.2	98	75 - 125	
Cadmium	50.0	47.3	95	75 - 125	
Calcium	5000	5050	101	75 - 125	
Chromium	100	95.0	95	75 - 125	
Cobalt	50.0	43.8	88	75 - 125	
Copper	100	99.2	99	75 - 125	
Iron	5000	5120	102	75 - 125	
Lead	50.0	44.4	89	75 - 125	
Magnesium	5000	5140	103	75 - 125	
Manganese	500	473	95	75 - 125	
Mercury	5.00	4.50	90	75 - 125	
Nickel	100	98.5	98	75 - 125	
Selenium	100	96.6	97	75 - 125	
Silver	50.0	48.5	97	75 - 125	
Sodium	5000	4840	97	75 - 125	
Thallium	40.0	36.7	92	75 - 125	
Vanadium	100	95.2	95	75 - 125	
Zinc	100	95.1	95	75 - 125	

Lab Control Sample - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133353/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2059
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Potassium	5000	4530	91	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133669	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/24/2009 2243			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133669	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/24/2009 2250			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	109	107	75 - 125	2	20		
Antimony	106	105	75 - 125	2	20		
Arsenic	109	109	75 - 125	0	20		
Barium	92	92	75 - 125	0	20		
Beryllium	109	109	75 - 125	0	20		
Cadmium	107	105	75 - 125	1	20		
Calcium	100	99	75 - 125	0	20		
Chromium	104	104	75 - 125	1	20		
Cobalt	96	95	75 - 125	1	20		
Copper	108	107	75 - 125	1	20		
Iron	99	101	75 - 125	2	20		
Lead	98	97	75 - 125	1	20		
Magnesium	108	108	75 - 125	0	20		
Manganese	67	76	75 - 125	6	20	F	
Mercury	100	99	75 - 125	0	20		
Nickel	106	107	75 - 125	0	20		
Selenium	107	107	75 - 125	0	20		
Silver	107	107	75 - 125	0	20		
Sodium	108	109	75 - 125	0	20		
Thallium	103	102	75 - 125	1	20		
Vanadium	103	101	75 - 125	2	20		
Zinc	92	91	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133684	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/25/2009 2132			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133684	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/25/2009 2139			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Potassium	85	82	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-134033

Method: 325.2
Preparation: N/A

Lab Sample ID: MB 680-134033/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1532
Date Prepared: N/A

Analysis Batch: 680-134033
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Chloride	1000	U	170	1000

Lab Control Sample - Batch: 680-134033

Method: 325.2
Preparation: N/A

Lab Sample ID: LCS 680-134033/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1533
Date Prepared: N/A

Analysis Batch: 680-134033
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	50000	47400	95	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-134033

Method: 325.2
Preparation: N/A

MS Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1611
Date Prepared: N/A

Analysis Batch: 680-134033
Prep Batch: N/A

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1611
Date Prepared: N/A

Analysis Batch: 680-134033
Prep Batch: N/A

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	96	94	85 - 115	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133620

Method: 351.2
Preparation: 351.2

Lab Sample ID: MB 680-133620/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1312
Date Prepared: 03/25/2009 1530

Analysis Batch: 680-133803
Prep Batch: 680-133620
Units: ug/L

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Nitrogen, Kjeldahl	57	J	57	200

Lab Control Sample - Batch: 680-133620

Method: 351.2
Preparation: 351.2

Lab Sample ID: LCS 680-133620/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1312
Date Prepared: 03/25/2009 1530

Analysis Batch: 680-133803
Prep Batch: 680-133620
Units: ug/L

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Kjeldahl	1000	988	99	75 - 125	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133620

Method: 351.2
Preparation: 351.2

MS Lab Sample ID: 680-45579-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1312
Date Prepared: 03/25/2009 1530

Analysis Batch: 680-133803
Prep Batch: 680-133620

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 680-45579-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1312
Date Prepared: 03/25/2009 1530

Analysis Batch: 680-133803
Prep Batch: 680-133620

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrogen, Kjeldahl	50	46	75 - 125	3	40	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-136483

Method: 351.2
Preparation: 351.2

Lab Sample ID:	MB 680-136483/1-A	Analysis Batch:	680-136587	Instrument ID:	KoneLab1
Client Matrix:	Water	Prep Batch:	680-136483	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2009 1324			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2009 1430				

Analyte	Result	Qual	MDL	RL
Nitrogen, Kjeldahl	200	U	57	200

Lab Control Sample - Batch: 680-136483

Method: 351.2
Preparation: 351.2

Lab Sample ID:	LCS 680-136483/2-A	Analysis Batch:	680-136587	Instrument ID:	KoneLab1
Client Matrix:	Water	Prep Batch:	680-136483	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2009 1324			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2009 1430				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Kjeldahl	1000	931	93	75 - 125	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-136483

Method: 351.2
Preparation: 351.2

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-136587	Instrument ID:	KoneLab1
Client Matrix:	Water	Prep Batch:	680-136483	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	04/30/2009 1324			Final Weight/Volume:	20 mL
Date Prepared:	04/29/2009 1430				

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-136587	Instrument ID:	KoneLab1
Client Matrix:	Water	Prep Batch:	680-136483	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	04/30/2009 1324			Final Weight/Volume:	20 mL
Date Prepared:	04/29/2009 1430				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrogen, Kjeldahl	111	94	75 - 125	8	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133358

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 680-133358/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1130
Date Prepared: N/A

Analysis Batch: 680-133358
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrate as N	50	U	25	50
Nitrate Nitrite as N	50	U	25	50
Nitrite as N	50	U	10	50

Lab Control Sample - Batch: 680-133358

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 680-133358/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1130
Date Prepared: N/A

Analysis Batch: 680-133358
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1000	1010	101	90 - 110	
Nitrate Nitrite as N	1000	1010	101	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133682

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 680-133682/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1042
Date Prepared: N/A

Analysis Batch: 680-133682
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrite as N	50	U	10	50

Lab Control Sample - Batch: 680-133682

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 680-133682/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1042
Date Prepared: N/A

Analysis Batch: 680-133682
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	1000	974	97	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133682

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1243
Date Prepared: N/A

Analysis Batch: 680-133682
Prep Batch: N/A

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1243
Date Prepared: N/A

Analysis Batch: 680-133682
Prep Batch: N/A

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrite as N	98	99	90 - 110	1	10		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133683

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 680-133683/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2009 1102
Date Prepared: N/A

Analysis Batch: 680-133683
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrite as N	50	U	10	50

Lab Control Sample - Batch: 680-133683

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 680-133683/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2009 1102
Date Prepared: N/A

Analysis Batch: 680-133683
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	1000	953	95	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133903

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 680-133903/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1455
Date Prepared: N/A

Analysis Batch: 680-133903
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrate as N	50	U	25	50
Nitrate Nitrite as N	50	U	25	50
Nitrite as N	50	U	10	50

Lab Control Sample - Batch: 680-133903

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 680-133903/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1455
Date Prepared: N/A

Analysis Batch: 680-133903
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab2
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1000	1000	100	90 - 110	
Nitrate Nitrite as N	1000	1000	100	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133903

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	680-45623-1	Analysis Batch:	680-133903	Instrument ID:	KoneLab2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/19/2009 1243			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	680-45623-1	Analysis Batch:	680-133903	Instrument ID:	KoneLab2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/19/2009 1243			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate as N	97	98	90 - 110	1	10		
Nitrate Nitrite as N	97	98	90 - 110	1	10		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-134020

Method: 375.4
Preparation: N/A

Lab Sample ID: MB 680-134020/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1102
Date Prepared: N/A

Analysis Batch: 680-134020
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Sulfate	5000	U	2500	5000

Lab Control Sample - Batch: 680-134020

Method: 375.4
Preparation: N/A

Lab Sample ID: LCS 680-134020/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1102
Date Prepared: N/A

Analysis Batch: 680-134020
Prep Batch: N/A
Units: ug/L

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	20000	20100	100	75 - 125	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-134020

Method: 375.4
Preparation: N/A

MS Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1130
Date Prepared: N/A

Analysis Batch: 680-134020
Prep Batch: N/A

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1130
Date Prepared: N/A

Analysis Batch: 680-134020
Prep Batch: N/A

Instrument ID: KoneLab1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	82	83	75 - 125	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Method Blank - Batch: 680-133531

Method: 9060
Preparation: N/A

Lab Sample ID: MB 680-133531/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1100
Date Prepared: N/A

Analysis Batch: 680-133531
Prep Batch: N/A
Units: ug/L

Instrument ID: Total Organic Carbon Analyze
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	1000	U	500	1000

Lab Control Sample - Batch: 680-133531

Method: 9060
Preparation: N/A

Lab Sample ID: LCS 680-133531/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1133
Date Prepared: N/A

Analysis Batch: 680-133531
Prep Batch: N/A
Units: ug/L

Instrument ID: Total Organic Carbon Analyze
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	20000	19400	97	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133531

Method: 9060
Preparation: N/A

MS Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1503
Date Prepared: N/A

Analysis Batch: 680-133531
Prep Batch: N/A

Instrument ID: Total Organic Carbon
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 680-45623-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1518
Date Prepared: N/A

Analysis Batch: 680-133531
Prep Batch: N/A

Instrument ID: Total Organic Carbon Analyze
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon	96	95	80 - 120	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 015053

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Aqualm		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lidya Gutierrez		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Erin Wright	866 227-7786	814-343-0770
CLIENT NAME	CLIENT E-MAIL	
GES	ewright@gesonline.com	
CLIENT ADDRESS		
23 South 13th St Suite 201 Richmond VA 23219		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ✓

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8260 B VOC + TIC	8270D SVOC + TIC	8316 Acrylamide	8015 Alcohol/Glycol	6020 Total metals	325.2 CL/325.3 SO4	353.2 Nitrate/Nitrite	351.2 TKN	9060 TOC
								HCL	NP	NP	NP	HNO3	NP	NP/H2SO4	H2SO4	HCL
3-11-09	1300	VFSP-SW-1		X				3	2	1	3	1	1	1	1	1
	1430	SOB-SW-1		X				3	2	1	3	1	1	1	1	1
	1451	SOB-SW-2		X				3	2	1	3	1	1	1	1	1
↓	~	TB-1		X				2	-	-	-	-	-	-	-	-

NUMBER OF CONTAINERS SUBMITTED

REMARKS

PRESERVATIVE

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3-17-09	600pm						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	3/18/9	0858	YES ○ NO ○		680-45579	TEMPERATURE 0.4

Serial Number 015056

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
HAQ		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lidya Gulzia		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Erin Wright	866-222-7786	804-343-0770
CLIENT NAME	CLIENT E-MAIL	
GES, Inc	ewright@gesonline.com	
CLIENT ADDRESS		
23 South 13th St. Suite 201 Richmond VA 23219		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY X

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED									REMARKS
								HCL App IX VOCs 8260B + TICs	NP App IX SVOCs 8270C + TICs	NP 8316 Acrylamide	NP 8015 Alcohols/ Glycols	HN TO Total Metals 6020	NP HS 353.2 Nitrate/Nitrite	NF HS 325.2 CL 375.4 SO4	HS 351.2 TKN	HCl 9060 TOC	
3-18-09	1215	SDBSW-3		X				3	2	1	3	1	1	1	1	1	
↓	↓	SDBSW-3 MS		X				3	2	1	3	1	1	1	1	1	
		SDBSW-3 MSD		X				3	2	1	3	1	1	1	1	1	2 coolers
		BD-1		X				3	2	1	3	1	1	1	1	1	

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3-18-09	1830						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Botha Daughtry	3/19/09	0852	YES ○ NO ○		680-95623	TEMPERATURE 2.4 / 0.2

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Hercules Inc.

Job Number: 680-45579-1
SDG Number: HAQ032

Login Number: 45579
List Source: TestAmerica Savannah
Creator: Daughtry, Beth
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	1 cooler rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	2 vials labelled MW-1 for SDB-SW-1; 1-125 ml rec'd as SDB-SW-1 at time 14:51.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Check List

Client: Hercules Inc.

Job Number: 680-45579-1
SDG Number: HAQ032

Login Number: 45579
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/20/09 09:32 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: Hercules Inc.

Job Number: 680-45579-1
SDG Number: HAQ032

Login Number: 45623
List Source: TestAmerica Savannah
Creator: Daughtry, Beth
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4 and 0.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Rec'd 2 sets of TBs not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Check List

Client: Hercules Inc.

Job Number: 680-45579-1
SDG Number: HAQ032

Login Number: 45623
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/20/09 10:20 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-45632-1

SDG Number: HAQ033

Job Description: Hercules Aqualon LSS Soils 3/18/09

For:
Groundwater & Environmental Services Inc
Exchange Alley Building
23 South 13th Street Suite 201
Richmond, VA 23219

Attention: Mr. Montgomery Bennett

Approved for release.
Lidya Gulizia
Project Manager I
4/29/2009 11:30 AM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
04/29/2009

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Comments
Client samples LSS-6 through LSS-10 and BD-2 were placed on hold by the client.

No other additional comments.

METHOD SUMMARY

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP/MS)	TAL SAV	SW846 6020	
Preparation, Metals	TAL SAV		SW846 3050B
Matrix: Water			
Metals (ICP/MS)	TAL SAV	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Method	Analyst	Analyst ID
SW846 6020	Boyuk, Brian	BB

SAMPLE SUMMARY

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-45632-1	LSS-1	Solid	03/18/2009 1620	03/19/2009 0852
680-45632-2	LSS-2	Solid	03/18/2009 1630	03/19/2009 0852
680-45632-3	LSS-3	Solid	03/18/2009 1635	03/19/2009 0852
680-45632-4	LSS-4	Solid	03/18/2009 1640	03/19/2009 0852
680-45632-5	LSS-5	Solid	03/18/2009 1650	03/19/2009 0852
680-45632-6	LSS-6	Solid	03/18/2009 1655	03/19/2009 0852
680-45632-7	LSS-7	Solid	03/18/2009 1700	03/19/2009 0852
680-45632-8	LSS-8	Solid	03/18/2009 1710	03/19/2009 0852
680-45632-9	LSS-9	Solid	03/18/2009 1720	03/19/2009 0852
680-45632-10	LSS-10	Solid	03/18/2009 1725	03/19/2009 0852
680-45632-10MS	LSS-10	Solid	03/18/2009 1725	03/19/2009 0852
680-45632-10MSD	LSS-10	Solid	03/18/2009 1725	03/19/2009 0852
680-45632-11	BD-2	Solid	03/18/2009 0000	03/19/2009 0852
680-45632-12	EB-1	Water	03/18/2009 1745	03/19/2009 0852

SAMPLE RESULTS

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-1**

Lab Sample ID:	680-45632-1			Date Sampled:	03/18/2009 1620
Client Matrix:	Solid	% Moisture:	22.1	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Date Analyzed:	03/25/2009 1549			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead		17000		100	350

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-2**

Lab Sample ID:	680-45632-2			Date Sampled:	03/18/2009 1630
Client Matrix:	Solid	% Moisture:	19.0	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Date Analyzed:	03/25/2009 1556			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead		18000		100	350

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-3**

Lab Sample ID:	680-45632-3			Date Sampled:	03/18/2009 1635
Client Matrix:	Solid	% Moisture:	20.0	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Date Analyzed:	03/25/2009 1603			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead		22000		110	370

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-4**

Lab Sample ID:	680-45632-4			Date Sampled:	03/18/2009 1640
Client Matrix:	Solid	% Moisture:	18.6	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/25/2009 1610			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead		45000		94	320

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-5**

Lab Sample ID:	680-45632-5			Date Sampled:	03/18/2009 1650
Client Matrix:	Solid	% Moisture:	16.9	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Date Analyzed:	03/25/2009 1703			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1142				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead		18000		100	340

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **EB-1**

Lab Sample ID: 680-45632-12
Client Matrix: Water

Date Sampled: 03/18/2009 1745
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2216
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lead	0.19	J	0.15	1.5

DATA REPORTING QUALIFIERS

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Lab Section	Qualifier	Description
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-133309					
LCS 680-133309/9-A	Lab Control Sample	T	Solid	3050B	
MB 680-133309/8-A	Method Blank	T	Solid	3050B	
680-45632-1	LSS-1	T	Solid	3050B	
680-45632-2	LSS-2	T	Solid	3050B	
680-45632-3	LSS-3	T	Solid	3050B	
680-45632-4	LSS-4	T	Solid	3050B	
680-45632-4MS	Matrix Spike	T	Solid	3050B	
680-45632-4MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-45632-5	LSS-5	T	Solid	3050B	
Prep Batch: 680-133353					
LCS 680-133353/21-A	Lab Control Sample	R	Water	3005A	
MB 680-133353/20-A	Method Blank	R	Water	3005A	
680-45632-12	EB-1	R	Water	3005A	
Analysis Batch:680-133655					
LCS 680-133309/9-A	Lab Control Sample	T	Solid	6020	680-133309
MB 680-133309/8-A	Method Blank	T	Solid	6020	680-133309
680-45632-1	LSS-1	T	Solid	6020	680-133309
680-45632-2	LSS-2	T	Solid	6020	680-133309
680-45632-3	LSS-3	T	Solid	6020	680-133309
680-45632-4	LSS-4	T	Solid	6020	680-133309
680-45632-4MS	Matrix Spike	T	Solid	6020	680-133309
680-45632-4MSD	Matrix Spike Duplicate	T	Solid	6020	680-133309
680-45632-5	LSS-5	T	Solid	6020	680-133309
Analysis Batch:680-133669					
LCS 680-133353/21-A	Lab Control Sample	R	Water	6020	680-133353
MB 680-133353/20-A	Method Blank	R	Water	6020	680-133353
680-45632-12	EB-1	R	Water	6020	680-133353

Report Basis
R = Total Recoverable
T = Total

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Method Blank - Batch: 680-133309

Method: 6020
Preparation: 3050B

Lab Sample ID:	MB 680-133309/8-A	Analysis Batch:	680-133655	Instrument ID:	ICP MS - A
Client Matrix:	Solid	Prep Batch:	680-133309	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	1.00 g
Date Analyzed:	03/25/2009 1536			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	Result	Qual	MDL	RL
Lead	300	U	88	300

Lab Control Sample - Batch: 680-133309

Method: 6020
Preparation: 3050B

Lab Sample ID:	LCS 680-133309/9-A	Analysis Batch:	680-133655	Instrument ID:	ICP MS - A
Client Matrix:	Solid	Prep Batch:	680-133309	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	1.00 g
Date Analyzed:	03/25/2009 1543			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	5000	4840	97	75 - 125	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133309

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	680-45632-4	Analysis Batch:	680-133655	Instrument ID:	ICP MS - A
Client Matrix:	Solid	Prep Batch:	680-133309	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/25/2009 1630			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

MSD Lab Sample ID:	680-45632-4	Analysis Batch:	680-133655	Instrument ID:	ICP MS - A
Client Matrix:	Solid	Prep Batch:	680-133309	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/25/2009 1636			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	148	-54	75 - 125	23	20	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Method Blank - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133353/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2203
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Lead	1.5	U	0.15	1.5

Lab Control Sample - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133353/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2210
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	50.0	44.4	89	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 015054

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Aqualn		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lidya Gulizia		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Erin Wright	8606222-7186	804-343-0720
CLIENT NAME	CLIENT E-MAIL	
GES	ewright@gesonline.com	
CLIENT ADDRESS		
23 South 13th St Suite 201 Richmond VA 23219		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY X

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 6020 - Lead	REMARKS
								NP	PRESERVATIVE
3-18-09	1620	LSS-1			X			1	Run analyses on
	1630	LSS-2			X			1	LSS-1 through
	1635	LSS-3			X			1	LSS-5, & EB-1
	1640	LSS-4			X			1	
	1650	LSS-5			X			1	HOLD LSS-5
	1655	LSS-6			X			1	through LSS-10,
	1700	LSS-7			X			1	LSS-10 MS,
	1710	LSS-8			X			1	LSS-10 MSD, BD-2,
	1720	LSS-9			X			1	until notice
	1725	LSS-10			X			1	from client
	1725	LSS-10 MS			X			1	
	1725	LSS-10 MSD			X			1	

Page 18 of 20

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3-18-09	1830						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/19/09	0852	YES ○ NO ○		68045632	

TAL8240-680 (1207)

Serial Number 015055

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
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○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Aqualon		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lidya Gonzalez		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Erin Wright	866.222-7786	
CLIENT NAME	CLIENT E-MAIL	
GES	ewright@gesonline.com	
CLIENT ADDRESS		
23 South 13th St Suite 201 Richmond VA 23219		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ⊗

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 6020 Lead	REQUIRED ANALYSIS: 6020 Lead	PRESERVATIVE	REMARKS
								NP	HN		
—	—	BD-2			X			1			HOLD BD-2
3-18-09	1745	EB-1		X					1		until notice from client to analyze
											Run EB-1

NUMBER OF CONTAINERS SUBMITTED

REMARKS

Page 19 of 20

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-18-09	1830						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	031909	0852	YES ○ NO ○		680945632	2.0 TEMP

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Hercules Inc.

Job Number: 680-45632-1
SDG Number: HAQ033

Login Number: 45632
List Source: TestAmerica Savannah
Creator: Hall, Karl I
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	1 cooler rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

SDG# HAQ033

PROJECT# 680-45632-1

METALS FRACTION

TABLE OF CONTENTS

SDG# HAQ033
Fraction: METALS

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CHAIN OF CUSTODY

Serial Number 015054

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Aqualm		
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Dan Wright	CLIENT PHONE: 8606222-7186	CLIENT FAX: 804-343-0220
CLIENT NAME: GES	CLIENT E-MAIL: dwright@gesonline.com	
CLIENT ADDRESS: 23 South 13th St Suite 201 Richmond VA 23219		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE): AQUEOUS (WATER), SOLID OR SEMISOLID, AIR, NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 6020 - Lead

PAGE 1 OF 2

STANDARD REPORT DELIVERY: X

DATE DUE:

EXPEDITED REPORT DELIVERY (SURCHARGE): ○

DATE DUE:

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	SOLID OR SEMISOLID	NO. OF CONTAINERS SUBMITTED	PRESERVATIVE	REMARKS
3-18-09	1620	LSS-1	X	1		Run analyses on
	1630	LSS-2	X	1		LSS-1 through
	1635	LSS-3	X	1		LSS-5, & EB-1
	1640	LSS-4	X	1		
	1650	LSS-5	X	1		HOLD LSS-5
	1655	LSS-6	X	1		through LSS-10,
	1700	LSS-7	X	1		LSS-10 MS,
	1710	LSS-8	X	1		LSS-10 MSD, BD-2,
	1720	LSS-9	X	1		& until notice
	1725	LSS-10	X	1		from client
	1725	LSS-10 MS	X	1		
	1725	LSS-10 MSD	X	1		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3-18-09	1830						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	3/19/09	0852	YES ○ NO ○		680-45632	

TAL8240-680 (1207)

Serial Number 015055

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
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Savannah, GA 31404
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PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Aqualon		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lidya Gulizia		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Erin Wright	866.222-7786	
CLIENT NAME	CLIENT E-MAIL	
GES	ewright@gesonline.com	
CLIENT ADDRESS		
23 South 13th St Suite 201 Richmond VA 23219		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ⊘
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 6020 Lead	REQUIRED ANALYSIS: 6020 Lead	REMARKS
								NP	HN	PRESERVATIVE
-	-	BD-2			X			1		Hold BD-2
3-18-09	1745	EB-1		X					1	until notice
										from client to
										analyze
										Run EB-1

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3-18-09	1830						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	031909	0852	YES ○ NO ○		680945632	2.0 TEMP

TAL8240-680 (1207)

CASE NARRATIVE

CASE NARRATIVE
Metals Fraction (6020)
SDG: HAQ033
Test America Lab Reference No.: 680-45632-1
Project: Hercules – Aqualon LSS Soils 3/18/09

I. RECEIPT
No receipt or storage anomalies were noted.

II. HOLDING TIMES
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. METHODS
Preparation: SW-846 3005A/3050B
Cleanup: none
Analysis: SW-846 6020

IV. PREPARATION
Sample preparation proceeded normally. Aqueous samples were prepared in batch 680-133353 for ICPMS metals (3005A). Soil/ solid samples were prepared in batch 680-133309 for ICPMS metals (3050B).

V. ANALYSIS

A. Calibration: All initial calibration criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes: A laboratory control standard (LCS) for ICPMS metals was digested in each of the prep batches and analyzed with the samples in this package. All acceptance criteria were met.

Sample 680-45632-1, a client sample from SDGHAQ032, was used as the batch matrix spike/ matrix spike duplicate (MS/MSD) for the ICPMS metals analysis of batch 680-133353. All acceptance criteria were met.

Sample 680-45632-4 was used as the batch MS/MSD for the ICPMS metals analysis of batch 680-133309. The MS/MSD percent recoveries were outside of control limits for lead due to abundance (the parent sample level was at least four times the spike level). This is denoted by a "4" qualifier. The MS/MSD relative percent difference (%RPD) was outside of control limits for lead. This is denoted by a "4" qualifier.

D. Samples: All acceptance criteria were met.

E. Other: Sample 680-45632-1 was used as the batch serial dilution and post-digestion spike for the ICPMS metals analysis of batch 680-133353. Sample 680-45632-4 was used as the batch serial dilution and post-digestion spike for the ICPMS metals analysis of batch 680-133309. All acceptance criteria were met.

SAMPLE INFORMATION SUMMARY

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-45632-1

SDG No.: HAQ033

Project: Hercules Aqualon LSS Soils 3/18/09

Client Sample ID	Lab Sample ID
LSS-1	680-45632-1
LSS-2	680-45632-2
LSS-3	680-45632-3
LSS-4	680-45632-4
LSS-5	680-45632-5
EB-1	680-45632-12

Comments:

SAMPLE RESULTS

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: LSS-1 Lab Sample ID: 680-45632-1

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG ID.: HAQ033

Matrix: Solid Date Sampled: 03/18/2009 16:20

Reporting Basis: DRY Date Received: 03/19/2009 08:52

% Solids: 77.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	17000	350	100	ug/Kg			1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: LSS-2 | Lab Sample ID: 680-45632-2

Lab Name: TestAmerica Savannah | Job No.: 680-45632-1

SDG ID.: HAQ033

Matrix: Solid | Date Sampled: 03/18/2009 16:30

Reporting Basis: DRY | Date Received: 03/19/2009 08:52

% Solids: 81.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	18000	350	100	ug/Kg			1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: LSS-3 | Lab Sample ID: 680-45632-3

Lab Name: TestAmerica Savannah | Job No.: 680-45632-1

SDG ID.: HAQ033

Matrix: Solid | Date Sampled: 03/18/2009 16:35

Reporting Basis: DRY | Date Received: 03/19/2009 08:52

% Solids: 80.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	22000	370	110	ug/Kg			1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: LSS-4 | Lab Sample ID: 680-45632-4

Lab Name: TestAmerica Savannah | Job No.: 680-45632-1

SDG ID.: HAQ033

Matrix: Solid | Date Sampled: 03/18/2009 16:40

Reporting Basis: DRY | Date Received: 03/19/2009 08:52

% Solids: 81.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	45000	320	94	ug/Kg			1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: LSS-5 | Lab Sample ID: 680-45632-5

Lab Name: TestAmerica Savannah | Job No.: 680-45632-1

SDG ID.: HAQ033

Matrix: Solid | Date Sampled: 03/18/2009 16:50

Reporting Basis: DRY | Date Received: 03/19/2009 08:52

% Solids: 83.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	18000	340	100	ug/Kg			1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: EB-1 Lab Sample ID: 680-45632-12

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG ID.: HAQ033

Matrix: Water Date Sampled: 03/18/2009 17:45

Reporting Basis: WET Date Received: 03/19/2009 08:52

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.19	1.5	0.15	ug/L	J		1	6020

QUALITY CONTROL RESULTS

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

INITIAL CALIBRATION VERIFICATIONS

Initial Calibration Verification Source: MS ICVwk_00040

Analyte	ICV 680-133669/7 03/23/2009 13:05											
	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R
Pb	40		40.0	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION VERIFICATIONS

Continuing Calibration Verification Source: MS CCV cpi_00047

Analyte	CCV 680-133669/15 03/23/2009 13:59				CCV 680-133669/25 03/23/2009 15:07				CCV 680-133669/27 03/23/2009 23:48			
	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R
Pb	49		50.0	98	49		50.0	98	49		50.0	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION VERIFICATIONS

Continuing Calibration Verification Source: MS CCV cpi_00047

Analyte	CCV 680-133669/34 03/24/2009 0:35				CCV 680-133669/36 03/24/2009 15:45				CCV 680-133669/43 03/24/2009 16:32			
	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R
Pb	48		50.0	96	48		50.0	96	48		50.0	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION VERIFICATIONS

Continuing Calibration Verification Source: MS CCV cpi_00047

Analyte	CCV 680-133669/66 03/24/2009 21:50				CCV 680-133669/78 03/24/2009 23:10							
	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R
Pb	46		50.0	92	46		50.0	92				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

INITIAL CALIBRATION VERIFICATIONS

Initial Calibration Verification Source: MS ICVwk_00040

Analyte	ICV 680-133655/7 03/25/2009 13:21											
	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R
Pb	39		40.0	97								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION VERIFICATIONS

Continuing Calibration Verification Source: MS CCV cpi_00047

Analyte	CCV 680-133655/15 03/25/2009 14:16				CCV 680-133655/25 03/25/2009 15:23				CCV 680-133655/37 03/25/2009 16:43			
	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R
Pb	49		50.0	97	48		50.0	96	46		50.0	92

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION VERIFICATIONS

Continuing Calibration Verification Source: MS CCV cpi_00047

Analyte	CCV 680-133655/49 03/25/2009 18:04											
	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R	Found	C	Spike Amt.	%R
Pb	45		50.0	91								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Analysis Method: 6020 Instrument ID: ICPMSA

Lab Sample ID: CRI 680-133655/9 Concentration Units: ug/L

CRQL Check Standard Source: MS RL WK 00076

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Lead	0.300	0.29	J	97	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3A-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

INITIAL CALIBRATION BLANK

Analyte	RL	ICB 680-133669/8 03/23/2009 13:12							
		Found	C	Found	C	Found	C	Found	C
Pb	0.30	0.30	U						

Italicized analytes were not requested for this sequence.

FORM III-IN

3A-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION BLANKS

Analyte	RL	CCB 680-133669/16 03/23/2009 14:06		CCB 680-133669/26 03/23/2009 15:14		CCB 680-133669/28 03/23/2009 23:54		CCB 680-133669/35 03/24/2009 00:42	
		Found	C	Found	C	Found	C	Found	C
Pb	0.30	0.30	U	0.30	U	0.30	U	0.30	U

Italicized analytes were not requested for this sequence.

3A-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION BLANKS

Analyte	RL	CCB 680-133669/37 03/24/2009 15:51		CCB 680-133669/44 03/24/2009 16:40		CCB 680-133669/67 03/24/2009 21:56		CCB 680-133669/79 03/24/2009 23:17	
		Found	C	Found	C	Found	C	Found	C
Pb	0.30	0.30	U	0.30	U	0.30	U	0.30	U

Italicized analytes were not requested for this sequence.

3A-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

INITIAL CALIBRATION BLANK

Analyte	RL	ICB 680-133655/8 03/25/2009 13:28							
		Found	C	Found	C	Found	C	Found	C
Pb	0.30	0.30	U						

Italicized analytes were not requested for this sequence.

FORM III-IN

3A-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L DataFile Name:

CONTINUING CALIBRATION BLANKS

Analyte	RL	CCB 680-133655/16 03/25/2009 14:22		CCB 680-133655/26 03/25/2009 15:29		CCB 680-133655/38 03/25/2009 16:50		CCB 680-133655/50 03/25/2009 18:10	
		Found	C	Found	C	Found	C	Found	C
Pb	0.30	0.30	U	0.30	U	0.30	U	0.30	U

Italicized analytes were not requested for this sequence.

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/Kg Lab Sample ID: MB 680-133309/8-A

Instrument Code: ICPMSA Batch No.: 133655

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	300	U		6020

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Concentration Units: ug/L Lab Sample ID: MB 680-133353/20-A

Instrument Code: ICPMSA Batch No.: 133669

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	1.5	U		6020

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Lab Sample ID: ICSA 680-133669/17 Instrument ID: ICPMSA

Lab File ID: ICS Source: MS_ICSA_wk_00020

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Pb		**0.0868**	
Ag		*0.0699*	
Al	*100000*	*90910*	*91*
As		*0.154*	
B		*0.462*	
Ba		*1.46*	
Be		*0.0024*	
Ca	*100000*	*96990*	*97*
Cd		*-0.0628*	
Co		*0.182*	
Cr		*1.02*	
Cu		*0.0977*	
Fe	*100000*	*95310*	*95*
Hg		*0.0199*	
Mg	*100000*	*91030*	*91*
Mn		*2.18*	
Mo	*2000*	*2048*	*102*
Na	*100000*	*95060*	*95*
Ni		*0.675*	
Sb		*0.189*	
Se		*0.0604*	
Sn		*0.0620*	
Sr		*2.60*	
Ti	*2000*	*2105*	*105*
Tl		*0.0327*	
V		*0.0635*	
Zn		*2.86*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Lab Sample ID: ICSA 680-133669/29 Instrument ID: ICPMSA

Lab File ID: ICS Source: MS_ICSA_wk_00020

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Pb		**0.0884**	
Ag		*0.0623*	
Al	*100000*	*89270*	*89*
As		*0.124*	
B		*0.422*	
Ba		*1.43*	
Be		*0.0058*	
Ca	*100000*	*95450*	*95*
Cd		*0.303*	
Co		*0.161*	
Cr		*0.939*	
Cu		*0.0690*	
Fe	*100000*	*95470*	*95*
Hg		*0.0247*	
Mg	*100000*	*90170*	*90*
Mn		*2.06*	
Mo	*2000*	*2114*	*106*
Na	*100000*	*92910*	*93*
Ni		*0.599*	
Sb		*0.216*	
Se		*0.0423*	
Sn		*0.0580*	
Sr		*2.53*	
Ti	*2000*	*2148*	*107*
Tl		*0.0302*	
V		*0.0621*	
Zn		*2.74*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Lab Sample ID: ICSA 680-133669/38 Instrument ID: ICPMSA

Lab File ID: ICS Source: MS_ICSA_wk_00020

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Pb		**0.0879**	
Ag		*0.0632*	
Al	*100000*	*92650*	*93*
As		*0.154*	
B		*0.390*	
Ba		*1.49*	
Be		*0.0107*	
Ca	*100000*	*98830*	*99*
Cd		*-0.301*	
Co		*0.146*	
Cr		*0.973*	
Cu		*0.0251*	
Fe	*100000*	*95680*	*96*
Hg		*0.0245*	
Mg	*100000*	*93450*	*93*
Mn		*2.14*	
Mo	*2000*	*2168*	*108*
Na	*100000*	*95630*	*96*
Ni		*0.595*	
Sb		*0.223*	
Se		*0.0565*	
Sn		*0.0697*	
Sr		*2.58*	
Ti	*2000*	*2156*	*108*
Tl		*0.0391*	
V		*0.0535*	
Zn		*2.54*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Lab Sample ID: ICSA 680-133655/17 Instrument ID: ICPMSA

Lab File ID: ICS Source: MS_ICSA_wk_00020

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Pb		**0.0926**	
Ag		*0.0533*	
Al	*100000*	*92580*	*93*
As		*0.112*	
B		*0.760*	
Ba		*1.49*	
Be		*0.0029*	
Ca	*100000*	*98560*	*99*
Cd		*-0.158*	
Co		*0.152*	
Cr		*1.01*	
Cu		*0.110*	
Fe	*100000*	*96140*	*96*
Hg		*0.0254*	
K	*100000*	*100200*	*100*
Mg	*100000*	*94240*	*94*
Mn		*2.17*	
Mo	*2000*	*2092*	*105*
Na	*100000*	*97590*	*98*
Ni		*0.625*	
Sb		*0.213*	
Se		*0.0678*	
Sn		*0.0846*	
Sr		*2.68*	
Ti	*2000*	*2173*	*109*
Tl		*0.0400*	
V		*0.0358*	
Zn		*2.84*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: LSS-4 MS
Lab ID: 680-45632-4 MS
Lab Name: TestAmerica Savannah
Job No.: 680-45632-1
SDG No.: HAQ033
Matrix: Solid
Concentration Units: ug/Kg
% Solids: 81.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	52600		45000		5340	148	75-125	4	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 680-45623-C-1-B MS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Matrix: Water Concentration Units: ug/L

% Solids: _____

Analyte	SSR C		Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	51.0		2.0		50.0	98	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: LSS-4 MSD
Lab ID: 680-45632-4 MSD
Lab Name: TestAmerica Savannah
Job No.: 680-45632-1
SDG No.: HAQ033
Matrix: Solid
Concentration Units: ug/Kg
% Solids: 81.4

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	41900	5340	-54	75-125	23	20	4	6020

SRD = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 680-45623-C-1-C MSD

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Matrix: Water Concentration Units: ug/L

% Solids: _____

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	50.3		50.0	97	75-125	1	20		6020

SRD = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: LSS-4 PDS | Lab ID: 680-45632-4 PDS

Lab Name: TestAmerica Savannah | Job No.: 680-45632-1

SDG No.: HAQ033

Matrix: Solid | Concentration Units: ug/Kg

Analyte	SSR C		Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	67000		45000		21400	104	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 680-45623-C-1-A PDS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Matrix: Water Concentration Units: ug/L

Analyte	SSR C		Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	103		2.0		100	101	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SPIKE
METALS

Lab ID: LCS 680-133309/9-A

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

Sample Matrix: Solid LCS Source: MS lcs1cpi_00011

Analyte	Solid(ug/Kg)							
	True	Found	C	%R	Limits		Q	Method
Lead	5000	4840		97	75	125		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SPIKE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 680-133353/21-A

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

Sample Matrix: Water LCS Source: MS lcslcpi_00011

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	50.0	44.4		89	75	125		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-45632-4

SDG No: HAQ033

Lab Name: TestAmerica Savannah Job No: 680-45632-1

Matrix: Solid Concentration Units: ug/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Lead	45000		45000		0.51		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 680-45623-C-1-A SD

SDG No: HAQ033

Lab Name: TestAmerica Savannah Job No: 680-45632-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Lead	2.0		1.8	J	NC		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-45632-1

SDG Number: HAQ033

Matrix: Solid Instrument ID: ICPMSA

Analysis Method: 6020 MDL Date: 08/04/2007 00:00

Prep Method: 3050B

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Lead		0.3	0.088

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Savannah Job Number: 680-45632-1

SDG Number: HAQ033

Matrix: Water Instrument ID: ICPMSA

Analysis Method: 6020 MDL Date: 08/04/2007 00:00

Prep Method: 3005A

Leach Method:

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Lead		1.5	0.15

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
680-45632-1	03/23/2009 11:11	133309	1.11		1000
680-45632-2	03/23/2009 11:11	133309	1.05		1000
680-45632-3	03/23/2009 11:11	133309	1.02		1000
680-45632-4	03/23/2009 11:11	133309	1.15		1000
680-45632-4 MS	03/23/2009 11:11	133309	1.15		1000
680-45632-4 MSD	03/23/2009 11:11	133309	1.15		1000
MB 680-133309/8-A	03/23/2009 11:11	133309	1.00		1000
LCS 680-133309/9-A	03/23/2009 11:11	133309	1.00		1000
680-45632-5	03/23/2009 11:42	133309	1.06		1000

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Preparation Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
680-45632-12	03/23/2009 14:29	133353		50	250
MB 680-133353/20-A	03/23/2009 14:29	133353		50	250
LCS 680-133353/21-A	03/23/2009 14:29	133353		50	250
680-45623-C-1-B MS	03/23/2009 14:29	133353		50	250
680-45623-C-1-C MSD	03/23/2009 14:29	133353		50	250

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Instrument ID: ICPMSA Method: 6020

Start Date: 03/23/2009 12:24 End Date: 03/25/2009 01:26

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
STD00 680-133669/1 IC			12:24	X																			
STD01 680-133669/2 IC			12:31	X																			
STD02 680-133669/3 IC			12:38	X																			
STD03 680-133669/4 IC			12:45	X																			
STD04 680-133669/5 IC			12:52	X																			
ZZZZZZ			12:58																				
ICV 680-133669/7	1		13:05	X																			
ICB 680-133669/8	1		13:12	X																			
CRI 680-133669/9			13:18																				
CRI 680-133669/10			13:25																				
CRI 680-133669/11			13:32																				
ZZZZZZ			13:39																				
ZZZZZZ			13:46																				
ZZZZZZ			13:53																				
CCV 680-133669/15	1		13:59	X																			
CCB 680-133669/16	1		14:06	X																			
ICSA 680-133669/17	1		14:13	X																			
ICSAB 680-133669/18	1		14:20	X																			
ZZZZZZ			14:27																				
LRA 680-133669/20	1		14:33	X																			
ZZZZZZ			14:40																				
ZZZZZZ			14:47																				
ZZZZZZ			14:54																				
ZZZZZZ			15:00																				
CCV 680-133669/25	1		15:07	X																			
CCB 680-133669/26	1		15:14	X																			
CCV 680-133669/27	1		23:48	X																			
CCB 680-133669/28	1		23:54	X																			
ICSA 680-133669/29	1		00:01	X																			
ICSAB 680-133669/30	1		00:08	X																			
ZZZZZZ			00:15																				
ZZZZZZ			00:21																				
ZZZZZZ			00:28																				
CCV 680-133669/34	1		00:35	X																			
CCB 680-133669/35	1		00:42	X																			
CCV 680-133669/36	1		15:45	X																			
CCB 680-133669/37	1		15:51	X																			
ICSA 680-133669/38	1		15:58	X																			
ICSAB 680-133669/39	1		16:05	X																			
ZZZZZZ			16:12																				
ZZZZZZ			16:19																				
ZZZZZZ			16:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Instrument ID: ICPMSA Method: 6020

Start Date: 03/23/2009 12:24 End Date: 03/25/2009 01:26

Lab Sample ID	D/F	Type	Time	Analytes																				
				Pb																				
CCV 680-133669/43	1		16:32	X																				
CCB 680-133669/44	1		16:40	X																				
CCV 680-133669/45			19:27																					
CCB 680-133669/46			19:34																					
ZZZZZZ			19:41																					
ZZZZZZ			19:48																					
ZZZZZZ			19:55																					
ZZZZZZ			20:02																					
ZZZZZZ			20:09																					
ZZZZZZ			20:15																					
ZZZZZZ			20:22																					
ZZZZZZ			20:29																					
ZZZZZZ			20:36																					
ZZZZZZ			20:42																					
CCV 680-133669/57			20:49																					
CCB 680-133669/58			20:56																					
ZZZZZZ			21:03																					
ZZZZZZ			21:09																					
ZZZZZZ			21:16																					
ZZZZZZ			21:23																					
ZZZZZZ			21:30																					
ZZZZZZ			21:36																					
ZZZZZZ			21:43																					
CCV 680-133669/66	1		21:50	X																				
CCB 680-133669/67	1		21:56	X																				
MB 680-133353/20-A	1	R	22:03	X																				
LCS 680-133353/21-A	1	R	22:10	X																				
680-45632-12	1	R	22:16	X																				
ZZZZZZ			22:23																					
680-45623-C-1-A SD	5	R	22:30	X																				
680-45623-C-1-A PDS	1	R	22:37	X																				
680-45623-C-1-B MS	1	R	22:43	X																				
680-45623-C-1-C MSD	1	R	22:50	X																				
ZZZZZZ			22:57																					
ZZZZZZ			23:04																					
CCV 680-133669/78	1		23:10	X																				
CCB 680-133669/79	1		23:17	X																				
ZZZZZZ			23:24																					
ZZZZZZ			23:31																					
ZZZZZZ			23:37																					
ZZZZZZ			23:44																					
ZZZZZZ			23:51																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Instrument ID: ICPMSA Method: 6020

Start Date: 03/23/2009 12:24 End Date: 03/25/2009 01:26

Lab Sample ID	D / F	Type	Time	Analytes																				
				Pb																				
ZZZZZZ			23:58																					
ZZZZZZ			00:04																					
ZZZZZZ			00:11																					
ZZZZZZ			00:18																					
ZZZZZZ			00:25																					
CCV 680-133669/90			00:32																					
CCB 680-133669/91			00:38																					
ZZZZZZ			00:45																					
ZZZZZZ			00:52																					
ZZZZZZ			00:58																					
ZZZZZZ			01:05																					
ZZZZZZ			01:12																					
CCV 680-133669/97			01:19																					
CCB 680-133669/98			01:26																					

Prep Types
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Instrument ID: ICPMSA Method: 6020

Start Date: 03/25/2009 12:40 End Date: 03/25/2009 18:10

Lab Sample ID	D / F	Type	Time	Analytes																					
				Pb																					
STD01 680-133655/1 IC			12:40	X																					
STD02 680-133655/2 IC			12:47	X																					
STD03 680-133655/3 IC			12:54	X																					
STD04 680-133655/4 IC			13:01	X																					
STD05 680-133655/5 IC			13:07	X																					
ZZZZZZ			13:14																						
ICV 680-133655/7	1		13:21	X																					
ICB 680-133655/8	1		13:28	X																					
CRI 680-133655/9	1		13:35	X																					
ZZZZZZ			13:41																						
ZZZZZZ			13:48																						
ZZZZZZ			13:55																						
ZZZZZZ			14:02																						
ZZZZZZ			14:09																						
CCV 680-133655/15	1		14:16	X																					
CCB 680-133655/16	1		14:22	X																					
ICSA 680-133655/17	1		14:29	X																					
ICSAB 680-133655/18	1		14:36	X																					
ZZZZZZ			14:43																						
LRA 680-133655/20	1		14:49	X																					
ZZZZZZ			14:55																						
ZZZZZZ			15:02																						
ZZZZZZ			15:09																						
ZZZZZZ			15:16																						
CCV 680-133655/25	1		15:23	X																					
CCB 680-133655/26	1		15:29	X																					
MB 680-133309/8-A	1	T	15:36	X																					
LCS 680-133309/9-A	1	T	15:43	X																					
680-45632-1	1	T	15:49	X																					
680-45632-2	1	T	15:56	X																					
680-45632-3	1	T	16:03	X																					
680-45632-4	1	T	16:10	X																					
680-45632-4 SD	5	T	16:16	X																					
680-45632-4 PDS	1	T	16:23	X																					
680-45632-4 MS	1	T	16:30	X																					
680-45632-4 MSD	1	T	16:36	X																					
CCV 680-133655/37	1		16:43	X																					
CCB 680-133655/38	1		16:50	X																					
ZZZZZZ			16:57																						
680-45632-5	1	T	17:03	X																					
ZZZZZZ			17:10																						
ZZZZZZ			17:17																						

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-45632-1

SDG No.: HAQ033

Instrument ID: ICPMSA Method: 6020

Start Date: 03/25/2009 12:40 End Date: 03/25/2009 18:10

Lab Sample ID	D / F	Type	Time	Analytes																				
				Pb																				
ZZZZZZ			17:24																					
ZZZZZZ			17:30																					
ZZZZZZ			17:37																					
ZZZZZZ			17:44																					
ZZZZZZ			17:50																					
ZZZZZZ			17:57																					
CCV 680-133655/49	1		18:04	X																				
CCB 680-133655/50	1		18:10	X																				

Prep Types
T = Total/NA

EXTRACTION / PREPARATION LOGS

Metals Worksheet

Batch Number: 680-133309
Method: 3050B
Analyst: Hardy, Donnetta

Date Open: Mar 24 2009 10:11AM
Batch End: Mar 24 2009 12:11PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	MS lcs1cpi_00011	MS_LCS2_wk_00070	Tef chips_00005
680-45632-A-1	LSS-1	3050B, 6020	T	1.11 g	1000 mL			
680-45632-A-2	LSS-2	3050B, 6020	T	1.05 g	1000 mL			
680-45632-A-3	LSS-3	3050B, 6020	T	1.02 g	1000 mL			
680-45632-A-4	LSS-4	3050B, 6020	T	1.15 g	1000 mL			
680-45632-A-4~MS		3050B, 6020	T	1.15 g	1000 mL	1.00 mL	1.00 mL	
680-45632-A-4~MSD		3050B, 6020	T	1.15 g	1000 mL	1.00 mL	1.00 mL	
680-45703-A-1	Digester Sludge	3050B, 6020	T	1.15 g	1000 mL			
MB~680-133309/8				1.00 g	1000 mL			1.00 g
LCS~680-133309/9				1.00 g	1000 mL	1.00 mL	1.00 mL	1.00 g
680-45632-A-5	LSS-5	3050B, 6020	T	1.06 g	1000 mL			
680-45632-A-6	LSS-6			1.20 g	1000 mL			
680-45632-A-7	LSS-7			1.04 g	1000 mL			
680-45632-A-8	LSS-8			1.06 g	1000 mL			
680-45632-A-9	LSS-9			1.10 g	1000 mL			
680-45632-A-10	LSS-10			1.06 g	1000 mL			
680-45632-A-10~MS	LSS-10			1.06 g	1000 mL	1.00 mL	1.00 mL	
680-45632-A-10~MSD	LSS-10			1.06 g	1000 mL	1.00 mL	1.00 mL	
680-45632-A-11	BD-2			1.12 g	1000 mL			

DigestionTubes:	A809LS234	Oven, Bath or Block Temperature 1:	94 Degrees C
Blank Soil Lot Number:	TEF CHIPS_00005	Oven, Bath or Block Temperature 2:	N/A Degrees C
Balance ID:	5		
Hood ID or number:	FH-8		
Hot Block ID number:	10		
Lot # of hydrochloric acid:	G39A12		
Lot # of Nitric Acid:	G17026		
Logbook ID for diluted Nitric:	N/A		
Hydrogen peroxide lot number:	48139831		
ID number of the thermometer:	MESD1		
Temperature:	94 Degrees C		
Acid used for pH adjustment:	N/A		
Analyst:	DH		
First Start time:	N/A		
First End time:	N/A		
Person name who witnessed reagent drop:	N/A		

Metals Worksheet

Batch Number: 680-133309
Method: 3050B
Analyst: Hardy, Donnetta

Date Open: Mar 24 2009 10:11AM
Batch End: Mar 24 2009 12:11PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
680-45632-A-1	LSS-1	3050B, 6020	T	
680-45632-A-2	LSS-2	3050B, 6020	T	
680-45632-A-3	LSS-3	3050B, 6020	T	
680-45632-A-4	LSS-4	3050B, 6020	T	
680-45632-A-4~MS		3050B, 6020	T	
680-45632-A-4~MSD		3050B, 6020	T	
680-45703-A-1	Digester Sludge	3050B, 6020	T	
MB~680-133309/8				
LCS~680-133309/9				
680-45632-A-5	LSS-5	3050B, 6020	T	
680-45632-A-6	LSS-6			
680-45632-A-7	LSS-7			
680-45632-A-8	LSS-8			
680-45632-A-9	LSS-9			
680-45632-A-10	LSS-10			
680-45632-A-10~MS	LSS-10			
680-45632-A-10~MSD	LSS-10			
680-45632-A-11	BD-2			

Batch Comment: N/A

Metals Worksheet

Batch Number: 680-133353
Method: 3005A
Analyst: Alpuche, Rosalie

Date Open: Mar 23 2009 2:29PM
Batch End: Mar 24 2009 10:46AM

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	MS lcs1cpi_00011	MS_LCS2_wk_00070
680-45632-A-12	EB-1	3005A, 6020	R	<2	50 mL	250 mL		
680-45623-C-1	SDBSW-3	3005A, 6020	R	<2	50 mL	250 mL		
680-45623-C-2	BD-1	3005A, 6020	R	<2	50 mL	250 mL		
640-21188-D-2	0610-352-2 (9-24")	3005A, 6020	R	<2	50 mL	250 mL		
640-21188-D-3	0610-352-3 (24-32")	3005A, 6020	R	<2	50 mL	250 mL		
640-21189-C-2	PS101506I	3005A, 6020	R	<2	50 mL	250 mL		
640-21189-C-3	PS101506PR	3005A, 6020	R	<2	50 mL	250 mL		
640-21189-C-4	WS101506E	3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AB-1	Composite	3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AA-2	Grab	3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AA-3		3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AA-4		3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AA-5		3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AB-6		3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AA-7		3005A, 6020	R	<2	50 mL	250 mL		
660-28254-AB-8		3005A, 6020	R	<2	50 mL	250 mL		
640-21208-D-2		3005A, 6020	R	<2	50 mL	250 mL		
640-21208-D-3		3005A, 6020	R	<2	50 mL	250 mL		
640-21208-D-4		3005A, 6020	R	<2	50 mL	250 mL		
MB~680-133353/20				<2	50 mL	250 mL		
LCS~680-133353/21				<2	50 mL	250 mL	0.50 mL	0.50 mL
680-45623-C-1~MS	SDBSW-3	3005A, 6020	R	<2	50 mL	250 mL	0.50 mL	0.50 mL
680-45623-C-1~MS D	SDBSW-3	3005A, 6020	R	<2	50 mL	250 mL	0.50 mL	0.50 mL

DigestionTubes:	A805LS309
Hot Block ID number:	7
Hood ID or number:	FH 10
Lot # of Nitric Acid:	G17026
Lot # of hydrochloric acid:	G39A12
Oven, Bath or Block Temperature 1:	96
ID number of the thermometer:	MELP1
Oven, Bath or Block Temperature 2:	N/A
First Start time:	N/A
First End time:	N/A

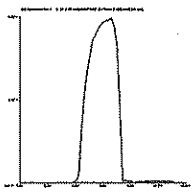
RAW DATA

200.8 QC Tune Report

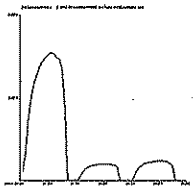
Data File: C:\ICPCHEM\1\DATA\09C23100.B\001TUNE.D
Date Acquired: Mar 23 2009 11:32 am
Acq. Method: TN200_8.M
Operator: BB
Sample Name: 100 ppb tune check
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

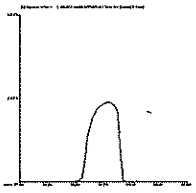
Element	Actual	Required	Flag
9 Be	0.98	5.00	
24 Mg	0.62	5.00	
59 Co	1.56	5.00	
115 In	1.32	5.00	
208 Pb	1.06	5.00	



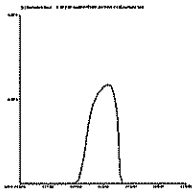
9 Be
Mass Calib.
Actual: 9.05
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.70
Required: 1.00
Flag:



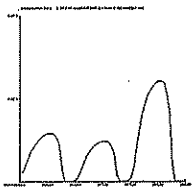
24 Mg
Mass Calib.
Actual: 24.05
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.70
Required: 1.00
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 1.00
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.65
Required: 1.00
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.65
Required: 1.00
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\002CA
Date Acquired:	Mar 23 2009 11:37 am
Operator:	BB
Sample Name:	CalBlk
Misc Info:	
Vial Number:	1
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update:	Mar 23 2009 11:42 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	672406.88	A	9629.00	1.43
9	Be	51.11	P	21.43	41.93
11	B	6685.24	P	300.40	4.49
23	Na	175033.91	P	2879.00	1.64
24	Mg	5310.16	P	115.10	2.17
27	Al	2558.14	P	73.46	2.87
39	K	3238.31	P	247.50	7.64
40	Ca	24731.75	P	828.50	3.35
45	Sc	315243.31	P	4158.00	1.32
45	Sc	22694.53	P	849.40	3.74
45	Sc	863181.50	A	11130.00	1.29
47	Ti	67.78	P	21.43	31.62
51	V	51.11	P	5.09	9.96
52	Cr	117.78	P	5.09	4.32
55	Mn	1291.23	P	18.36	1.42
56	Fe	12762.35	P	69.34	0.54
59	Co	302.24	P	90.09	29.81
60	Ni	74.82	P	8.41	11.25
63	Cu	288.16	P	28.38	9.85
65	Cu	149.26	P	6.12	4.10
65	Cu	520.03	P	25.17	4.84
66	Zn	946.74	P	75.36	7.96
68	Zn	756.72	P	27.28	3.61
70	Ge	8965.07	P	316.80	3.53
74	Ge	117294.20	P	834.70	0.71
74	Ge	20487.59	P	665.60	3.25
74	Ge	220756.50	P	2394.00	1.08
75	As	4.22	P	0.51	12.06
78	Se	7.00	P	0.33	4.76
88	Sr	673.38	P	55.48	8.24
89	Y	1252555.00	A	12110.00	0.97
90	Zr	375.58	P	13.47	3.59
91	Zr	87.78	P	1.92	2.19
95	Mo	364.47	P	28.35	7.78
107	Ag	50.00	P	20.28	40.56
111	Cd	17.56	P	9.61	54.74
115	In	1412595.00	A	27640.00	1.96
118	Sn	377.80	P	28.35	7.50
121	Sb	90.00	P	6.67	7.41
137	Ba	132.23	P	3.85	2.91
159	Tb	2097048.00	A	40050.00	1.91
201	Hg	12.33	P	1.45	11.78
202	Hg	28.89	P	2.84	9.81
203	Tl	1744.61	P	117.00	6.71
205	Tl	4026.44	P	96.43	2.39
208	Pb	1426.77	P	164.80	11.55
209	Bi	1373798.00	A	34260.00	2.49
232	Th	113.34	P	33.83	29.85
238	U	1376.81	P	92.45	6.71

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\003CA
Date Acquired: Mar 23 2009 11:44 am
Operator: BB
Sample Name: CalBlk
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 11:42 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	662908.88	A	8051.00	1.21
9	Be	33.33	P	3.33	10.00
11	B	4507.59	P	166.70	3.70
23	Na	208819.70	P	533.60	0.26
24	Mg	6188.37	P	457.00	7.38
27	Al	2720.39	P	30.01	1.10
39	K	3658.43	P	142.60	3.90
40	Ca	19970.26	P	50.17	0.25
45	Sc	331689.00	P	3100.00	0.93
45	Sc	24403.13	P	734.10	3.01
45	Sc	883546.13	A	4010.00	0.45
47	Ti	63.34	P	29.63	46.78
51	V	58.15	P	2.31	3.98
52	Cr	145.93	P	21.73	14.89
55	Mn	1499.04	P	20.37	1.36
56	Fe	15484.30	P	560.00	3.62
59	Co	298.91	P	55.42	18.54
60	Ni	56.30	P	14.16	25.15
63	Cu	241.12	P	12.81	5.31
65	Cu	108.89	P	5.88	5.40
65	Cu	495.59	P	54.30	10.96
66	Zn	635.60	P	7.70	1.21
68	Zn	551.15	P	27.15	4.93
70	Ge	9565.88	P	270.90	2.83
74	Ge	122010.80	P	876.20	0.72
74	Ge	21487.73	P	569.80	2.65
74	Ge	224708.41	P	2049.00	0.91
75	As	3.56	P	0.96	27.07
78	Se	6.00	P	0.88	14.70
88	Sr	680.05	P	14.53	2.14
89	Y	1267818.00	A	10150.00	0.80
90	Zr	412.25	P	37.47	9.09
91	Zr	100.00	P	26.03	26.03
95	Mo	327.80	P	26.95	8.22
107	Ag	74.45	P	12.62	16.95
111	Cd	14.25	P	6.92	48.59
115	In	1433997.00	A	22050.00	1.54
118	Sn	308.91	P	26.74	8.66
121	Sb	108.89	P	1.93	1.77
137	Ba	94.45	P	42.86	45.38
159	Tb	2123985.00	A	3949.00	0.19
201	Hg	9.56	P	1.35	14.10
202	Hg	23.67	P	2.08	8.80
203	Tl	595.03	P	6.01	1.01
205	Tl	1306.80	P	46.32	3.54
208	Pb	904.50	P	62.04	6.86
209	Bi	1390580.00	A	13500.00	0.97
232	Th	155.56	P	17.10	10.99
238	U	498.92	P	46.71	9.36

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\009CA
Date Acquired:	Mar 23 2009 12:24 pm
Operator:	BB
Sample Name:	CALBLK
Misc Info:	
Vial Number:	4
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update:	Mar 23 2009 12:22 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	643928.69	A	11860.00	1.84
9	Be	3.33	P	0.00	0.00
11	B	2170.26	P	113.20	5.22
23	Na	136584.09	P	1211.00	0.89
24	Mg	415.58	P	48.23	11.61
27	Al	421.13	P	32.03	7.61
39	K	3345.02	P	63.48	1.90
40	Ca	9660.58	P	196.50	2.03
45	Sc	329114.31	P	644.40	0.20
45	Sc	23924.88	P	632.50	2.64
45	Sc	872836.13	A	425.40	0.05
47	Ti	12.22	P	12.62	103.25
51	V	43.70	P	5.01	11.46
52	Cr	128.89	P	9.69	7.52
55	Mn	466.69	P	47.26	10.13
56	Fe	2184.33	P	538.70	24.66
59	Co	75.56	P	15.75	20.85
60	Ni	57.04	P	3.90	6.84
63	Cu	207.41	P	9.96	4.80
65	Cu	98.15	P	7.80	7.95
65	Cu	396.69	P	26.04	6.56
66	Zn	596.70	P	40.56	6.80
68	Zn	545.59	P	30.25	5.54
70	Ge	9422.80	P	167.40	1.78
74	Ge	122381.70	P	455.30	0.37
74	Ge	21667.30	P	436.60	2.02
74	Ge	224459.20	P	1271.00	0.57
75	As	3.22	P	0.69	21.54
78	Se	1.89	P	0.51	26.96
88	Sr	131.12	P	20.37	15.54
89	Y	1247150.00	A	9657.00	0.77
90	Zr	403.36	P	40.56	10.06
91	Zr	117.78	P	45.26	38.43
95	Mo	68.89	P	10.18	14.78
107	Ag	26.67	P	5.77	21.65
111	Cd	-0.04	P	0.01	14.78
115	In	1396207.00	A	15160.00	1.09
118	Sn	107.78	P	17.11	15.88
121	Sb	31.11	P	11.71	37.64
137	Ba	35.56	P	12.62	35.49
159	Tb	2071474.00	A	15420.00	0.74
201	Hg	9.78	P	1.95	19.97
202	Hg	21.11	P	1.07	5.07
203	Tl	65.00	P	12.58	19.35
205	Tl	155.56	P	20.37	13.09
208	Pb	366.69	P	31.80	8.67
209	Bi	1349994.00	A	17870.00	1.32
232	Th	68.89	P	25.02	36.32
238	U	21.11	P	1.93	9.12

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\010CALS.D\010CALS.D#
Date Acquired: Mar 23 2009 12:31 pm
Operator: BB
Sample Name: Cal Std 0.5/50
Misc Info: 1/200 ms cal std 00054
Vial Number: 4501
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:29 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	653529.63	A	7897.00	1.21
7 (Li)	49750.17	P	208.10	0.42
9 Be	1666.84	P	79.39	4.76
11 B	5481.34	P	69.31	1.26
23 Na	258725.80	P	1770.00	0.68
24 Mg	106191.80	P	801.20	0.75
27 Al	10478.95	P	269.10	2.57
39 K	9410.41	P	512.10	5.44
40 Ca	235652.09	P	1566.00	0.66
45 Sc	329771.50	P	3443.00	1.04
45 Sc	23956.03	P	771.50	3.22
45 Sc	878418.63	A	12240.00	1.39
47 Ti	632.27	P	76.04	12.03
51 V	708.92	P	18.36	2.59
52 Cr	1054.87	P	33.53	3.18
55 Mn	116227.00	P	453.30	0.39
56 Fe	430330.69	P	3937.00	0.91
59 Co	8204.02	P	75.03	0.91
60 Ni	434.09	P	20.68	4.76
63 Cu	1243.78	P	33.60	2.70
65 Cu	627.43	P	3.57	0.57
65 Cu	2311.41	P	7.70	0.33
66 Zn	1801.31	P	74.57	4.14
68 Zn	1402.36	P	115.30	8.22
70 Ge	59299.62	P	385.90	0.65
70 Ge	9405.38	P	262.60	2.79
70 Ge	114184.20	P	1550.00	1.36
72 Ge	158559.80	P	2539.00	1.60
74 Ge	121668.80	P	1056.00	0.87
74 Ge	21610.52	P	621.50	2.88
74 Ge	223589.00	P	3195.00	1.43
75 As	73.22	P	5.34	7.29
78 Se	138.78	P	3.91	2.81
88 Sr	11763.65	P	104.30	0.89
89 Y	1255517.00	A	17550.00	1.40
90 Zr	45810.43	P	1527.00	3.33
91 Zr	10130.03	P	224.40	2.22
95 Mo	2046.91	P	62.28	3.04
107 Ag	6060.60	P	113.50	1.87
111 Cd	1386.68	P	1.95	0.14
115 In	1411511.00	A	40250.00	2.85
118 Sn	3949.69	P	51.04	1.29
121 Sb	4312.04	P	50.05	1.16
137 Ba	1904.67	P	26.75	1.40
159 Tb	2075581.00	A	15190.00	0.73
166 Er	35.56	P	9.62	27.06
201 Hg	45.33	P	2.33	5.15
202 Hg	104.22	P	4.55	4.37
203 Tl	1257.88	P	33.39	2.65
205 Tl	2899.38	P	41.68	1.44
206 (Pb)	5199.16	P	225.10	4.33
207 (Pb)	3995.30	P	87.23	2.18
208 Pb	19230.36	P	590.80	3.07
209 Bi	1363619.00	A	29020.00	2.13
232 Th	18239.73	P	253.90	1.39
238 U	18858.55	P	484.80	2.57

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	653529.56	1.21	643928.69	101.5	60 - 125	
45 Sc	329771.50	1.04	329114.28	100.2	60 - 125	
45 Sc	878418.63	1.39	872836.06	100.6	60 - 125	
74 Ge	121668.83	0.87	122981.69	99.4	60 - 125	
74 Ge	21610.52	2.88	21667.30	99.7	60 - 125	
74 Ge	223588.98	1.43	224459.19	99.6	60 - 125	
89 Y	1255517.30	1.40	1247149.90	100.7	60 - 125	
115 In	1411511.10	2.85	1396206.60	101.1	60 - 125	
159 Tb	2075580.60	0.73	2071474.10	100.2	60 - 125	
209 Bi	1363618.50	2.13	1349994.40	101.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\011CALS.D\011CALS.D#
Date Acquired: Mar 23 2009 12:38 pm
Operator: BB
Sample Name: Cal Std 1.0/100
Misc Info: 1/100 ms cal std 00054
Vial Number: 4502
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	670980.81	A	15500.00	2.31
7 (Li)	58586.55	P	744.70	1.27
9 Be	3329.44	P	42.35	1.27
11 B	9412.54	P	170.00	1.81
23 Na	399237.31	P	925.90	0.23
24 Mg	213689.30	P	2156.00	1.01
27 Al	20124.69	P	422.20	2.10
39 K	15984.72	P	389.30	2.44
40 Ca	460703.19	P	5282.00	1.15
45 Sc	332657.91	P	2220.00	0.67
45 Sc	24321.10	P	710.30	2.92
45 Sc	896649.50	A	9733.00	1.09
47 Ti	1314.56	P	58.73	4.47
51 V	1339.72	P	45.14	3.37
52 Cr	1952.39	P	36.72	1.88
55 Mn	234959.50	P	825.50	0.35
56 Fe	871413.38	A	12220.00	1.40
59 Co	16651.28	P	268.80	1.61
60 Ni	890.78	P	76.00	8.53
63 Cu	2279.86	P	31.71	1.39
65 Cu	1138.96	P	29.21	2.56
65 Cu	4086.37	P	242.90	5.94
66 Zn	2980.46	P	127.10	4.26
68 Zn	2262.51	P	75.83	3.35
70 Ge	59804.19	P	659.70	1.10
70 Ge	9572.54	P	189.90	1.98
70 Ge	115453.30	P	927.50	0.80
72 Ge	159924.50	P	1137.00	0.71
74 Ge	122804.70	P	744.00	0.61
74 Ge	21778.95	P	261.60	1.20
74 Ge	225086.20	P	1594.00	0.71
75 As	169.78	P	13.79	8.12
78 Se	269.89	P	15.64	5.79
88 Sr	23518.07	P	148.70	0.63
89 Y	1268004.00	A	6823.00	0.54
90 Zr	110480.70	P	2451.00	2.22
91 Zr	24722.71	P	380.90	1.54
95 Mo	4011.91	P	165.20	4.12
107 Ag	12206.44	P	138.80	1.14
111 Cd	2766.91	P	33.97	1.23
115 In	1430384.00	A	20860.00	1.46
118 Sn	7718.29	P	128.90	1.67
121 Sb	8599.98	P	340.70	3.96
137 Ba	3909.66	P	78.22	2.00
159 Tb	2112627.00	A	19780.00	0.94
166 Er	38.89	P	13.88	35.69
201 Hg	84.56	P	6.31	7.46
202 Hg	188.45	P	9.15	4.86
203 Tl	2333.62	P	76.52	3.28
205 Tl	5640.51	P	234.20	4.15
206 (Pb)	10410.59	P	152.60	1.47
207 (Pb)	7854.13	P	151.80	1.93
208 Pb	38207.00	P	992.60	2.60
209 Bi	1381228.00	A	11100.00	0.80
232 Th	37203.95	P	1048.00	2.82
238 U	38233.17	P	542.20	1.42

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	670980.81	2.31	643928.69	104.2	60 - 125	
45 Sc	332657.91	0.67	329114.28	101.1	60 - 125	
45 Sc	896649.44	1.09	872836.06	102.7	60 - 125	
74 Ge	122804.73	0.61	122381.69	100.3	60 - 125	
74 Ge	21778.95	1.20	21667.30	100.5	60 - 125	
74 Ge	225086.19	0.71	224459.19	100.3	60 - 125	
89 Y	1268003.80	0.54	1247149.90	101.7	60 - 125	
115 In	1430384.40	1.46	1396206.60	102.4	60 - 125	
159 Tb	2112627.50	0.94	2071474.10	102.0	60 - 125	
209 Bi	1381228.40	0.80	1349994.40	102.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\012CALS.D\012CALS.D#
Date Acquired: Mar 23 2009 12:45 pm
Operator: BB
Sample Name: Cal Std 50/5000
Misc Info: 1/2 ms cal std 00054
Vial Number: 4503
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:43 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	658731.31	A	9513.00	1.44
7 (Li)	882012.69	A	11840.00	1.34
9 Be	171223.41	P	2006.00	1.17
11 B	379821.00	P	5322.00	1.40
23 Na	15011120.00	A	157300.00	1.05
24 Mg	10355010.00	A	93710.00	0.90
27 Al	981555.13	A	6176.00	0.63
39 K	656490.00	A	20710.00	3.15
40 Ca	22562290.00	A	211400.00	0.94
45 Sc	331982.50	P	2163.00	0.65
45 Sc	24360.84	P	626.10	2.57
45 Sc	883408.19	A	14900.00	1.69
47 Ti	60849.84	P	659.60	1.08
51 V	63958.32	P	840.80	1.31
52 Cr	87292.92	P	1342.00	1.54
55 Mn	11395980.00	A	185800.00	1.63
56 Fe	41229952.00	A	299800.00	0.73
59 Co	842924.81	A	612.00	0.07
60 Ni	37443.49	P	618.40	1.65
63 Cu	100188.20	P	1267.00	1.26
65 Cu	50534.91	P	933.70	1.85
65 Cu	173912.20	P	1732.00	1.00
66 Zn	116834.80	P	145.60	0.12
68 Zn	82962.52	P	1425.00	1.72
70 Ge	60572.44	P	622.80	1.03
70 Ge	9801.24	P	208.50	2.13
70 Ge	114113.10	P	1911.00	1.67
72 Ge	156958.09	P	511.50	0.33
74 Ge	120110.80	P	543.70	0.45
74 Ge	21008.40	P	432.70	2.06
74 Ge	217283.09	P	2757.00	1.27
75 As	7852.41	P	180.20	2.29
78 Se	14020.88	P	74.15	0.53
88 Sr	1216778.00	A	12340.00	1.01
89 Y	1245724.00	A	14780.00	1.19
90 Zr	6880951.00	A	74490.00	1.08
91 Zr	1561117.00	A	19450.00	1.25
95 Mo	194590.30	P	2184.00	1.12
107 Ag	594320.38	P	10440.00	1.76
111 Cd	132975.30	P	1782.00	1.34
115 In	1398132.00	A	22900.00	1.64
118 Sn	377573.00	P	5595.00	1.48
121 Sb	418097.41	P	5184.00	1.24
137 Ba	185903.91	P	1625.00	0.87
159 Tb	2101679.00	A	32000.00	1.52
166 Er	28.89	P	1.93	6.66
201 Hg	3386.50	P	35.46	1.05
202 Hg	7748.25	P	113.00	1.46
203 Tl	113074.80	P	1586.00	1.40
205 Tl	267780.00	P	2656.00	0.99
206 (Pb)	501304.91	P	5601.00	1.12
207 (Pb)	382942.50	P	5571.00	1.45
208 Pb	1904864.00	A	21220.00	1.11
209 Bi	1332380.00	A	15830.00	1.19
232 Th	1996985.00	A	22260.00	1.11
238 U	1998294.00	A	29870.00	1.49

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	658731.31	1.44	643928.69	102.3	60 - 125	
45 Sc	331982.53	0.65	329114.28	100.9	60 - 125	
45 Sc	883408.19	1.69	872836.06	101.2	60 - 125	
74 Ge	120110.80	0.45	122381.69	98.1	60 - 125	
74 Ge	21008.40	2.06	21667.30	97.0	60 - 125	
74 Ge	217283.11	1.27	224459.19	96.8	60 - 125	
89 Y	1245724.00	1.19	1247149.90	99.9	60 - 125	
115 In	1398132.30	1.64	1396206.60	100.1	60 - 125	
159 Tb	2101679.30	1.52	2071474.10	101.5	60 - 125	
209 Bi	1332380.10	1.19	1349994.40	98.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\013CALS.D\013CALS.D#
Date Acquired: Mar 23 2009 12:52 pm
Operator: BB
Sample Name: Cal Std 100/10000
Misc Info: ms cal std 00054
Vial Number: 4504
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:50 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	637212.38	A	10260.00	1.61
7 (Li)	1647391.00	A	8203.00	0.50
9 Be	338238.00	P	3251.00	0.96
11 B	785471.31	A	1290.00	0.16
23 Na	29023500.00	A	225900.00	0.78
24 Mg	19973690.00	A	118300.00	0.59
27 Al	1867800.00	A	27510.00	1.47
39 K	1265600.00	A	37560.00	2.97
40 Ca	43510328.00	A	395500.00	0.91
45 Sc	321602.50	P	2166.00	0.67
45 Sc	24324.84	P	673.30	2.77
45 Sc	871144.13	A	7731.00	0.89
47 Ti	118718.30	P	344.30	0.29
51 V	124353.80	P	2710.00	2.18
52 Cr	169347.80	P	3926.00	2.32
55 Mn	22252800.00	A	36870.00	0.17
56 Fe	79377488.00	A	1069000.00	1.35
59 Co	1626144.00	A	20100.00	1.24
60 Ni	72033.47	P	1510.00	2.10
63 Cu	191475.41	P	2303.00	1.20
65 Cu	95726.96	P	856.80	0.90
65 Cu	332404.09	P	3193.00	0.96
66 Zn	224738.30	P	803.10	0.36
68 Zn	159232.59	P	1357.00	0.85
70 Ge	59389.62	P	463.30	0.78
70 Ge	9959.49	P	183.90	1.85
70 Ge	112429.80	P	699.00	0.62
72 Ge	151153.09	P	1901.00	1.26
74 Ge	116076.10	P	1147.00	0.99
74 Ge	20274.27	P	473.70	2.34
74 Ge	210850.91	P	1450.00	0.69
75 As	14986.28	P	352.50	2.35
78 Se	27511.68	P	231.90	0.84
88 Sr	2355102.00	A	8334.00	0.35
89 Y	1226428.00	A	9316.00	0.76
90 Zr	13657190.00	A	125800.00	0.92
91 Zr	3060910.00	A	22340.00	0.73
95 Mo	380885.50	P	1999.00	0.52
107 Ag	1149910.00	A	5754.00	0.50
111 Cd	257910.50	P	2276.00	0.88
115 In	1357268.00	A	10370.00	0.76
118 Sn	771452.63	A	4582.00	0.59
121 Sb	845051.19	A	11980.00	1.42
137 Ba	363366.50	P	1435.00	0.39
159 Tb	2081295.00	A	24650.00	1.18
166 Er	34.45	P	13.47	39.11
201 Hg	6674.92	P	90.20	1.35
202 Hg	15148.13	P	202.00	1.33
203 Tl	222773.80	P	3512.00	1.58
205 Tl	529956.81	P	5161.00	0.97
206 (Pb)	1025576.00	A	8117.00	0.79
207 (Pb)	781417.69	A	16710.00	2.14
208 Pb	3794226.00	A	47210.00	1.24
209 Bi	1299328.00	A	21400.00	1.65
232 Th	3896851.00	A	45890.00	1.18
238 U	3925890.00	A	56020.00	1.43

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	637212.38	1.61	643928.69	99.0	60 - 125	
45 Sc	321602.44	0.67	329114.28	97.7	60 - 125	
45 Sc	871144.13	0.89	872836.06	99.8	60 - 125	
74 Ge	116076.13	0.99	122381.69	94.8	60 - 125	
74 Ge	20274.27	2.34	21667.30	93.6	60 - 125	
74 Ge	210850.88	0.69	224459.19	93.9	60 - 125	
89 Y	1226427.90	0.76	1247149.90	98.3	60 - 125	
115 In	1357268.30	0.76	1396206.60	97.2	60 - 125	
159 Tb	2081295.40	1.18	2071474.10	100.5	60 - 125	
209 Bi	1299327.90	1.65	1349994.40	96.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\014_BLK.D\014_BLK.D#
Date Acquired: Mar 23 2009 12:58 pm
Operator: BB
Sample Name: BLANK
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: Blank
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.01778 ug/l	10.84	#VALUE!	
11 B	1.869 ug/l	7.04	#VALUE!	
23 Na	3.07 ug/l	6.05	#VALUE!	
24 Mg	7.588 ug/l	8.34	#VALUE!	
27 Al	1.458 ug/l	3.38	#VALUE!	
39 K	0.9846 ug/l	22.18	#VALUE!	
40 Ca	6.759 ug/l	11.22	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.05177 ug/l	19.31	#VALUE!	
51 V	0.02386 ug/l	53.48	#VALUE!	
52 Cr	0.02412 ug/l	28.91	#VALUE!	
55 Mn	0.1768 ug/l	16.29	#VALUE!	
56 Fe	6.886 ug/l	12.40	#VALUE!	
59 Co	0.01763 ug/l	18.25	#VALUE!	
60 Ni	0.02086 ug/l	74.83	#VALUE!	
63 Cu	0.03146 ug/l	39.67	#VALUE!	
65 Cu	0.04224 ug/l	50.31	#VALUE!	
65 Cu	0.0246 ug/l	39.56	#VALUE!	
66 Zn	0.02312 ug/l	99.96	#VALUE!	
68 Zn	0.0258 ug/l	157.87	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.05062 ug/l	26.29	#VALUE!	
78 Se	0.124 ug/l	8.98	#VALUE!	
88 Sr	0.03398 ug/l	13.72	#VALUE!	
90 Zr	0.4256 ug/l	6.32	#VALUE!	
91 Zr	0.4316 ug/l	9.27	#VALUE!	
95 Mo	0.1958 ug/l	9.73	#VALUE!	
107 Ag	0.02138 ug/l	29.30	#VALUE!	
111 Cd	0.01797 ug/l	25.26	#VALUE!	
118 Sn	0.08444 ug/l	16.39	#VALUE!	
121 Sb	0.03804 ug/l	8.35	#VALUE!	
137 Ba	0.02227 ug/l	73.87	#VALUE!	
201 Hg	0.05981 ug/l	12.69	#VALUE!	
202 Hg	0.06249 ug/l	7.23	#VALUE!	
203 Tl	0.04721 ug/l	12.82	#VALUE!	
205 Tl	0.04983 ug/l	5.42	#VALUE!	
208 Pb	0.02399 ug/l	9.77	#VALUE!	
232 Th	0.08555 ug/l	6.65	#VALUE!	
238 U	0.02602 ug/l	17.18	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	671053.88	1.79	643928.69	104.2	60 - 125	
45 Sc	315949.91	0.54	329114.28	96.0	60 - 125	
45 Sc	865513.94	0.70	872836.06	99.2	60 - 125	
74 Ge	116039.20	1.25	122381.69	94.8	60 - 125	
74 Ge	20709.77	2.59	21667.30	95.6	60 - 125	
74 Ge	215538.22	1.29	224459.19	96.0	60 - 125	
89 Y	1223072.30	2.07	1247149.90	98.1	60 - 125	
115 In	1386758.10	0.71	1396206.60	99.3	60 - 125	
159 Tb	2079427.60	1.21	2071474.10	100.4	60 - 125	
209 Bi	1365126.50	1.03	1349994.40	101.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

ICV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\015_ICV.D\015_ICV.D#
Date Acquired: Mar 23 2009 01:05 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: ICV
Misc Info: MS ICVWK 000039
Vial Number: 4505
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: ICV
Dilution Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)	Flag
9 Be	38.91	ug/l	1.40	40.00	90 - 110	
11 B	76.09	ug/l	0.47	80.00	90 - 110	
23 Na	4106	ug/l	0.80	4000.00	90 - 110	
24 Mg	4141	ug/l	0.48	4000.00	90 - 110	
27 Al	421.8	ug/l	0.28	400.00	90 - 110	
39 K	3945	ug/l	2.88	4000.00	90 - 110	
40 Ca	4023	ug/l	0.28	4000.00	90 - 110	
45 Sc	--------	ug/l	--------	---	90 - 110	
47 Ti	39.4	ug/l	1.92	40.00	90 - 110	
51 V	40.33	ug/l	0.46	40.00	90 - 110	
52 Cr	39.07	ug/l	0.08	40.00	90 - 110	
55 Mn	405.7	ug/l	0.57	400.00	90 - 110	
56 Fe	4091	ug/l	0.39	4000.00	90 - 110	
59 Co	39.91	ug/l	0.46	40.00	90 - 110	
60 Ni	40.07	ug/l	0.79	40.00	90 - 110	
63 Cu	37.4	ug/l	0.80	40.00	90 - 110	
65 Cu	37.08	ug/l	0.67	40.00	90 - 110	
65 Cu	37.52	ug/l	0.35	40.00	90 - 110	
66 Zn	40.89	ug/l	0.35	40.00	90 - 110	
68 Zn	40.67	ug/l	1.20	40.00	90 - 110	
70 Ge	--------	ug/l	--------	---	90 - 110	
75 As	39.32	ug/l	0.60	40.00	90 - 110	
78 Se	40.67	ug/l	0.58	40.00	90 - 110	
88 Sr	42.38	ug/l	0.70	40.00	90 - 110	
90 Zr	7.595	ug/l	12.99	40.00	90 - 110	FAIL
91 Zr	7.578	ug/l	13.65	40.00	90 - 110	FAIL
95 Mo	38.83	ug/l	0.11	40.00	90 - 110	
107 Ag	39.45	ug/l	0.25	40.00	90 - 110	
111 Cd	40.57	ug/l	0.96	40.00	90 - 110	
118 Sn	37.33	ug/l	0.58	40.00	90 - 110	
121 Sb	37.07	ug/l	0.68	40.00	90 - 110	
137 Ba	40.24	ug/l	0.54	40.00	90 - 110	
201 Hg	2.013	ug/l	1.38	2.00	90 - 110	
202 Hg	2.005	ug/l	1.30	2.00	90 - 110	
203 Tl	8.16	ug/l	0.16	8.00	90 - 110	
205 Tl	8.225	ug/l	0.55	8.00	90 - 110	
208 Pb	40.3	ug/l	0.48	40.00	90 - 110	
232 Th	0.1208	ug/l	12.51	40.00	90 - 110	
238 U	0.009388	ug/l	13.97	40.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	675761.88	1.36	643928.69	104.9	60 - 125	
45 Sc	323482.53	0.11	329114.28	98.3	60 - 125	
45 Sc	861224.19	1.36	872836.06	98.7	60 - 125	
74 Ge	116356.08	0.68	122381.69	95.1	60 - 125	
74 Ge	20679.34	1.65	21667.30	95.4	60 - 125	
74 Ge	211851.83	0.90	224459.19	94.4	60 - 125	
89 Y	1212606.40	0.37	1247149.90	97.2	60 - 125	
115 In	1382277.40	0.93	1396206.60	99.0	60 - 125	
159 Tb	2077030.00	0.51	2071474.10	100.3	60 - 125	
209 Bi	1328360.30	1.49	1349994.40	98.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\016_CCB.D\016_CCB.D#
Date Acquired: Mar 23 2009 01:12 pm
Operator: BB
Sample Name: ICB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.0002814 ug/l	200.11	#VALUE!	
11 B	0.7364 ug/l	9.64	#VALUE!	
23 Na	-13.67 ug/l	1.54	#VALUE!	
24 Mg	0.06467 ug/l	45.29	#VALUE!	
27 Al	0.01029 ug/l	219.63	#VALUE!	
39 K	-2.957 ug/l	12.49	#VALUE!	
40 Ca	0.03422 ug/l	178.38	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.01226 ug/l	122.10	#VALUE!	
51 V	-0.002783 ug/l	28.66	#VALUE!	
52 Cr	0.001512 ug/l	699.74	#VALUE!	
55 Mn	0.001542 ug/l	64.70	#VALUE!	
56 Fe	0.5926 ug/l	2.01	#VALUE!	
59 Co	-0.0006673 ug/l	95.52	#VALUE!	
60 Ni	-0.004366 ug/l	207.12	#VALUE!	
63 Cu	-0.009868 ug/l	75.06	#VALUE!	
65 Cu	0.008017 ug/l	146.69	#VALUE!	
65 Cu	-0.01286 ug/l	55.11	#VALUE!	
66 Zn	0.01011 ug/l	162.31	#VALUE!	
68 Zn	0.00312 ug/l	476.92	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.00762 ug/l	210.10	#VALUE!	
78 Se	0.03511 ug/l	8.62	#VALUE!	
88 Sr	0.0002259 ug/l	111.86	#VALUE!	
90 Zr	-0.01558 ug/l	20.49	#VALUE!	
91 Zr	-0.01659 ug/l	28.43	#VALUE!	
95 Mo	0.06958 ug/l	3.28	#VALUE!	
107 Ag	0.003124 ug/l	19.41	#VALUE!	
111 Cd	0.0003508 ug/l	203.02	#VALUE!	
118 Sn	0.02295 ug/l	27.78	#VALUE!	
121 Sb	0.1852 ug/l	4.14	#VALUE!	
137 Ba	0.00367 ug/l	94.01	#VALUE!	
201 Hg	0.04269 ug/l	10.47	#VALUE!	
202 Hg	0.03778 ug/l	8.15	#VALUE!	
203 Tl	0.006969 ug/l	13.15	#VALUE!	
205 Tl	0.006522 ug/l	19.15	#VALUE!	
208 Pb	0.002088 ug/l	49.23	#VALUE!	
232 Th	0.002587 ug/l	17.21	#VALUE!	
238 U	0.001108 ug/l	41.69	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	670678.19	0.90	643928.69	104.2	60 - 125	
45 Sc	317798.19	0.87	329114.28	96.6	60 - 125	
45 Sc	872727.38	1.42	872836.06	100.0	60 - 125	
74 Ge	116327.59	0.64	122381.69	95.1	60 - 125	
74 Ge	21268.83	2.57	21667.30	98.2	60 - 125	
74 Ge	218263.56	1.28	224459.19	97.2	60 - 125	
89 Y	1238664.80	1.72	1247149.90	99.3	60 - 125	
115 In	1414940.50	1.13	1396206.60	101.3	60 - 125	
159 Tb	2094969.80	1.38	2071474.10	101.1	60 - 125	
209 Bi	1381505.80	1.28	1349994.40	102.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

QCS QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\017_QCS.D\017_QCS.D#
Date Acquired: Mar 23 2009 01:18 pm
Operator: BB
Sample Name: RL
Misc Info: ms rl wk_00075
Vial Number: 4506
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: QCS
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected	QC Range(%)	Flag
7 (Li)	1.19 ug/l	1.98	---	##### - #####	
9 Be	0.10 ug/l	10.67	---	##### - #####	
11 B	4.87 ug/l	3.41	---	##### - #####	
23 Na	31.99 ug/l	2.14	---	##### - #####	
24 Mg	51.31 ug/l	1.08	---	##### - #####	
27 Al	10.46 ug/l	1.39	---	##### - #####	
39 K	44.71 ug/l	3.05	---	##### - #####	
40 Ca	51.11 ug/l	0.25	---	##### - #####	
45 Sc	-------- ug/l	---------	---	##### - #####	
47 Ti	1.04 ug/l	2.14	---	##### - #####	
51 V	1.06 ug/l	3.74	---	##### - #####	
52 Cr	0.97 ug/l	2.26	---	##### - #####	
55 Mn	0.98 ug/l	1.28	---	##### - #####	
56 Fe	5.44 ug/l	1.41	---	##### - #####	
59 Co	0.94 ug/l	2.46	---	##### - #####	
60 Ni	1.04 ug/l	4.58	---	##### - #####	
63 Cu	1.01 ug/l	1.26	---	##### - #####	
65 Cu	1.02 ug/l	3.01	---	##### - #####	
65 Cu	1.03 ug/l	4.46	---	##### - #####	
66 Zn	1.10 ug/l	6.37	---	##### - #####	
68 Zn	1.06 ug/l	10.37	---	##### - #####	
70 Ge	-------- ug/l	---------	---	##### - #####	
70 Ge	-------- ug/l	---------	---	##### - #####	
70 Ge	-------- ug/l	---------	---	##### - #####	
72 Ge	-------- ug/l	---------	---	##### - #####	
75 As	1.05 ug/l	3.79	---	##### - #####	
78 Se	0.51 ug/l	2.63	---	##### - #####	
88 Sr	0.96 ug/l	0.37	---	##### - #####	
90 Zr	6.98 ug/l	0.81	---	##### - #####	
91 Zr	6.84 ug/l	0.45	---	##### - #####	
95 Mo	1.00 ug/l	4.21	---	##### - #####	
107 Ag	1.03 ug/l	1.19	---	##### - #####	
111 Cd	0.51 ug/l	6.36	---	##### - #####	
118 Sn	1.13 ug/l	1.82	---	##### - #####	
121 Sb	0.57 ug/l	2.26	---	##### - #####	
137 Ba	0.98 ug/l	5.03	---	##### - #####	
166 Er	-------- ug/l	---------	---	##### - #####	
201 Hg	0.10 ug/l	4.74	---	##### - #####	
202 Hg	0.10 ug/l	4.22	---	##### - #####	
203 Tl	0.21 ug/l	2.17	---	##### - #####	
205 Tl	0.20 ug/l	1.73	---	##### - #####	
206 (Pb)	-------- ug/l	---------	---	##### - #####	
207 (Pb)	-------- ug/l	---------	---	##### - #####	
208 Pb	0.30 ug/l	1.64	---	##### - #####	
232 Th	0.88 ug/l	0.78	---	##### - #####	
238 U	0.94 ug/l	1.05	---	##### - #####	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	680898.94	0.65	643928.69	105.7	60 - 125	
45 Sc	322361.91	0.43	329114.28	97.9	60 - 125	
45 Sc	881505.00	0.88	872836.06	101.0	60 - 125	
74 Ge	116829.16	1.06	122381.69	95.5	60 - 125	
74 Ge	21228.04	2.31	21667.30	98.0	60 - 125	
74 Ge	220076.33	1.27	224459.19	98.0	60 - 125	
89 Y	1245532.00	0.79	1247149.90	99.9	60 - 125	
115 In	1419069.90	0.45	1396206.60	101.6	60 - 125	
159 Tb	2113966.80	0.73	2071474.10	102.1	60 - 125	
209 Bi	1392004.60	1.00	1349994.40	103.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failure: 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\018SMPL.D\018SMPL.D#
Date Acquired:	Mar 23 2009 01:25 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RL 1/5
Misc Info:	1/5 ms rl wk_00075
Vial Number:	4507
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	5.00
Autodil Factor:	Undiluted
Final Dil Factor:	5.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.096	0.0192	ug/l	30.57	#VALUE!	
11 B	# 3	5.725	1.145	ug/l	6.37	#VALUE!	
23 Na	# 1	-42.94	-8.588	ug/l	1.92	#VALUE!	
24 Mg	# 1	51.5	10.3	ug/l	0.96	#VALUE!	
27 Al	# 1	12.135	2.427	ug/l	2.89	#VALUE!	
39 K	# 2	27.75	5.55	ug/l	9.90	#VALUE!	
40 Ca	# 1	53	10.6	ug/l	1.88	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	1.157	0.2314	ug/l	15.12	#VALUE!	
51 V	# 2	1.1725	0.2345	ug/l	3.70	#VALUE!	
52 Cr	# 2	1.0905	0.2181	ug/l	3.53	#VALUE!	
55 Mn	# 3	1.017	0.2034	ug/l	5.25	#VALUE!	
56 Fe	# 1	5.805	1.161	ug/l	2.38	#VALUE!	
59 Co	# 3	0.936	0.1872	ug/l	1.75	#VALUE!	
60 Ni	# 2	0.954	0.1908	ug/l	4.22	#VALUE!	
63 Cu	# 2	1.0055	0.2011	ug/l	6.27	#VALUE!	
65 Cu	# 2	0.824	0.1648	ug/l	11.43	#VALUE!	
65 Cu	# 3	0.9935	0.1987	ug/l	13.30	#VALUE!	
66 Zn	# 3	0.936	0.1872	ug/l	10.33	#VALUE!	
68 Zn	# 3	1.1075	0.2215	ug/l	6.70	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.9405	0.1881	ug/l	8.89	#VALUE!	
78 Se	# 1	0.5455	0.1091	ug/l	6.41	#VALUE!	
88 Sr	# 3	0.9845	0.1969	ug/l	3.20	#VALUE!	
90 Zr	# 3	7.715	1.543	ug/l	0.84	#VALUE!	
91 Zr	# 3	7.64	1.528	ug/l	1.60	#VALUE!	
95 Mo	# 3	1.0545	0.2109	ug/l	6.79	#VALUE!	
107 Ag	# 3	1.037	0.2074	ug/l	3.12	#VALUE!	
111 Cd	# 3	0.47945	0.09589	ug/l	11.02	#VALUE!	
118 Sn	# 3	1.1395	0.2279	ug/l	6.54	#VALUE!	
121 Sb	# 3	0.6565	0.1313	ug/l	4.07	#VALUE!	
137 Ba	# 3	1.0065	0.2013	ug/l	1.89	#VALUE!	
201 Hg	# 3	0.16355	0.03271	ug/l	9.34	#VALUE!	
202 Hg	# 3	0.15745	0.03149	ug/l	2.59	#VALUE!	
203 Tl	# 3	0.20905	0.04181	ug/l	4.11	#VALUE!	
205 Tl	# 3	0.21495	0.04299	ug/l	5.76	#VALUE!	
208 Pb	# 3	0.302	0.0604	ug/l	4.06	#VALUE!	
232 Th	# 3	0.949	0.1898	ug/l	0.23	#VALUE!	
238 U	# 3	0.948	0.1896	ug/l	1.28	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	658122.06	1.63	643928.69	102.2	60 - 125	
45 Sc	# 1	314610.97	0.67	329114.28	95.6	60 - 125	
45 Sc	# 3	869046.94	0.68	872836.06	99.6	60 - 125	
74 Ge	# 1	115496.90	1.03	122381.69	94.4	60 - 125	
74 Ge	# 2	21581.92	2.89	21667.30	99.6	60 - 125	
74 Ge	# 3	218702.28	1.34	224459.19	97.4	60 - 125	
89 Y	# 3	1232047.80	0.87	1247149.90	98.8	60 - 125	
115 In	# 3	1411873.50	1.16	1396206.60	101.1	60 - 125	
159 Tb	# 3	2086980.10	0.43	2071474.10	100.7	60 - 125	
209 Bi	# 3	1358448.10	1.65	1349994.40	100.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\019SMPL.D\019SMPL.D#
Date Acquired: Mar 23 2009 01:32 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: RL 1/10
Misc Info: 1/10 ms rl wk_00075
Vial Number: 4508
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 10.00
Autodil Factor: Undiluted
Final Dil Factor: 10.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.1148	0.01148	ug/l	48.47	#VALUE!	
11 B	# 3	5.284	0.5284	ug/l	5.96	#VALUE!	
23 Na	# 1	-140.1	-14.01	ug/l	0.75	#VALUE!	
24 Mg	# 1	52.57	5.257	ug/l	3.51	#VALUE!	
27 Al	# 1	14.48	1.448	ug/l	3.54	#VALUE!	
39 K	# 2	19.03	1.903	ug/l	63.64	#VALUE!	
40 Ca	# 1	65.69	6.569	ug/l	1.07	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	1.204	0.1204	ug/l	7.46	#VALUE!	
51 V	# 2	1.06	0.106	ug/l	12.45	#VALUE!	
52 Cr	# 2	1.157	0.1157	ug/l	11.63	#VALUE!	
55 Mn	# 3	1.021	0.1021	ug/l	2.94	#VALUE!	
56 Fe	# 1	6.367	0.6367	ug/l	5.54	#VALUE!	
59 Co	# 3	0.899	0.0899	ug/l	2.29	#VALUE!	
60 Ni	# 2	1.038	0.1038	ug/l	20.57	#VALUE!	
63 Cu	# 2	0.875	0.0875	ug/l	5.93	#VALUE!	
65 Cu	# 2	0.7753	0.07753	ug/l	12.55	#VALUE!	
65 Cu	# 3	1.012	0.1012	ug/l	8.00	#VALUE!	
66 Zn	# 3	1.35	0.135	ug/l	8.17	#VALUE!	
68 Zn	# 3	0.9181	0.09181	ug/l	21.17	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	1.035	0.1035	ug/l	7.17	#VALUE!	
78 Se	# 1	0.4244	0.04244	ug/l	24.08	#VALUE!	
88 Sr	# 3	0.9504	0.09504	ug/l	4.65	#VALUE!	
90 Zr	# 3	7.965	0.7965	ug/l	1.09	#VALUE!	
91 Zr	# 3	7.589	0.7589	ug/l	4.22	#VALUE!	
95 Mo	# 3	1.18	0.118	ug/l	18.70	#VALUE!	
107 Ag	# 3	1.077	0.1077	ug/l	8.36	#VALUE!	
111 Cd	# 3	0.5559	0.05559	ug/l	2.72	#VALUE!	
118 Sn	# 3	1.138	0.1138	ug/l	3.92	#VALUE!	
121 Sb	# 3	0.7004	0.07004	ug/l	10.93	#VALUE!	
137 Ba	# 3	0.9974	0.09974	ug/l	10.45	#VALUE!	
201 Hg	# 3	0.2155	0.02155	ug/l	25.56	#VALUE!	
202 Hg	# 3	0.1935	0.01935	ug/l	15.46	#VALUE!	
203 Tl	# 3	0.1807	0.01807	ug/l	11.49	#VALUE!	
205 Tl	# 3	0.1947	0.01947	ug/l	5.94	#VALUE!	
208 Pb	# 3	0.2837	0.02837	ug/l	3.35	#VALUE!	
232 Th	# 3	0.9967	0.09967	ug/l	3.17	#VALUE!	
238 U	# 3	0.9432	0.09432	ug/l	4.72	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	652594.13	1.58	643928.69	101.3	60 - 125	
45 Sc	# 1	311082.25	0.63	329114.28	94.5	60 - 125	
45 Sc	# 3	883826.31	1.70	872836.06	101.3	60 - 125	
74 Ge	# 1	114350.06	0.78	122381.69	93.4	60 - 125	
74 Ge	# 2	21226.18	2.08	21667.30	98.0	60 - 125	
74 Ge	# 3	220309.92	1.34	224459.19	98.2	60 - 125	
89 Y	# 3	1244778.10	1.76	1247149.90	99.8	60 - 125	
115 In	# 3	1406491.00	1.27	1396206.60	100.7	60 - 125	
159 Tb	# 3	2086044.50	1.26	2071474.10	100.7	60 - 125	
209 Bi	# 3	1349285.50	1.59	1349994.40	99.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\020SMPL.D\020SMPL.D#
Date Acquired:	Mar 23 2009 01:39 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RL 1/50
Misc Info:	1/50 ms rl wk_00075
Vial Number:	4509
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	50.00
Autodil Factor:	Undiluted
Final Dil Factor:	50.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	-0.0012125	-2.425E-005	ug/l	6940.20	#VALUE!	
11	B	# 3	5.185	0.1037	ug/l	26.77	#VALUE!	
23	Na	# 1	-881	-17.62	ug/l	1.63	#VALUE!	
24	Mg	# 1	56.35	1.127	ug/l	5.71	#VALUE!	
27	Al	# 1	28.565	0.5713	ug/l	9.20	#VALUE!	
39	K	# 2	-66.7	-1.334	ug/l	76.16	#VALUE!	
40	Ca	# 1	114.05	2.281	ug/l	2.33	#VALUE!	
45	Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47	Ti	# 3	1.992	0.03984	ug/l	22.07	#VALUE!	
51	V	# 2	1.046	0.02092	ug/l	28.55	#VALUE!	
52	Cr	# 2	1.7135	0.03427	ug/l	26.95	#VALUE!	
55	Mn	# 3	1.2295	0.02459	ug/l	13.88	#VALUE!	
56	Fe	# 1	8.01	0.1602	ug/l	1.94	#VALUE!	
59	Co	# 3	0.8555	0.01711	ug/l	22.39	#VALUE!	
60	Ni	# 2	2.3565	0.04713	ug/l	15.42	#VALUE!	
63	Cu	# 2	1.177	0.02354	ug/l	18.73	#VALUE!	
65	Cu	# 2	0.9115	0.01823	ug/l	59.90	#VALUE!	
65	Cu	# 3	-0.1108	-0.002216	ug/l	804.15	#VALUE!	
66	Zn	# 3	0.10575	0.002115	ug/l	1350.80	#VALUE!	
68	Zn	# 3	1.734	0.03468	ug/l	79.61	#VALUE!	
70	Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75	As	# 2	1.4765	0.02953	ug/l	41.42	#VALUE!	
78	Se	# 1	0.6635	0.01327	ug/l	28.39	#VALUE!	
88	Sr	# 3	0.992	0.01984	ug/l	11.78	#VALUE!	
90	Zr	# 3	13.49	0.2698	ug/l	6.71	#VALUE!	
91	Zr	# 3	13.7	0.274	ug/l	3.88	#VALUE!	
95	Mo	# 3	1.4865	0.02973	ug/l	7.01	#VALUE!	
107	Ag	# 3	1.234	0.02468	ug/l	15.44	#VALUE!	
111	Cd	# 3	0.48	0.0096	ug/l	21.35	#VALUE!	
118	Sn	# 3	1.475	0.0295	ug/l	22.15	#VALUE!	
121	Sb	# 3	1.271	0.02542	ug/l	21.38	#VALUE!	
137	Ba	# 3	1.0265	0.02053	ug/l	63.18	#VALUE!	
201	Hg	# 3	0.4728	0.009456	ug/l	0.73	#VALUE!	
202	Hg	# 3	0.5565	0.01113	ug/l	10.98	#VALUE!	
203	Tl	# 3	0.14095	0.002819	ug/l	28.88	#VALUE!	
205	Tl	# 3	0.16535	0.003307	ug/l	20.15	#VALUE!	
208	Pb	# 3	0.2404	0.004808	ug/l	26.02	#VALUE!	
232	Th	# 3	1.2835	0.02567	ug/l	2.39	#VALUE!	
238	U	# 3	0.9615	0.01923	ug/l	2.07	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	659204.19	1.67	643928.69	102.4	60 - 125	
45	Sc	# 1	305947.09	0.10	329114.28	93.0	60 - 125	
45	Sc	# 3	877866.88	1.85	872836.06	100.6	60 - 125	
74	Ge	# 1	113989.12	1.14	122381.69	93.1	60 - 125	
74	Ge	# 2	20847.42	3.33	21667.30	96.2	60 - 125	
74	Ge	# 3	220692.08	1.10	224459.19	98.3	60 - 125	
89	Y	# 3	1245774.50	1.88	1247149.90	99.9	60 - 125	
115	In	# 3	1399898.80	1.64	1396206.60	100.3	60 - 125	
159	Tb	# 3	2068125.00	1.40	2071474.10	99.8	60 - 125	
209	Bi	# 3	1346370.40	1.83	1349994.40	99.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\021SMPL.D\021SMPL.D#		
Date Acquired:	Mar 23 2009 01:46 pm		
Acq. Method:	EPA2002.M		
Operator:	BB		
Sample Name:	RL Zn B Fe		
Misc Info:	MSBFEZN 000011		
Vial Number:	4511		
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M		
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C		
Last Cal. Update:	Mar 23 2009 12:56 pm		
Sample Type:	Sample		Tune Step
Dilution Factor:	1.00	1	babh2.u
Autodil Factor:	Undiluted	2	babhe.u
Final Dil Factor:	1.00	3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.0002727	0.0002727	ug/l	530.62	#VALUE!	
11 B	# 3	18.38	18.38	ug/l	2.32	#VALUE!	
23 Na	# 1	-18.33	-18.33	ug/l	2.09	#VALUE!	
24 Mg	# 1	0.7198	0.7198	ug/l	7.22	#VALUE!	
27 Al	# 1	0.9633	0.9633	ug/l	7.28	#VALUE!	
39 K	# 2	-4.068	-4.068	ug/l	21.39	#VALUE!	
40 Ca	# 1	2.919	2.919	ug/l	0.66	#VALUE!	
45 Sc	# 2	----	--------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.02289	0.02289	ug/l	20.86	#VALUE!	
51 V	# 2	0.0009457	0.0009457	ug/l	380.56	#VALUE!	
52 Cr	# 2	0.01675	0.01675	ug/l	92.84	#VALUE!	
55 Mn	# 3	0.001965	0.001965	ug/l	146.21	#VALUE!	
56 Fe	# 1	21.44	21.44	ug/l	0.36	#VALUE!	
59 Co	# 3	-0.001841	-0.001841	ug/l	12.75	#VALUE!	
60 Ni	# 2	-0.01236	-0.01236	ug/l	93.93	#VALUE!	
63 Cu	# 2	-0.01999	-0.01999	ug/l	32.57	#VALUE!	
65 Cu	# 2	-0.007563	-0.007563	ug/l	42.22	#VALUE!	
65 Cu	# 3	-0.02727	-0.02727	ug/l	19.59	#VALUE!	
66 Zn	# 3	4.415	4.415	ug/l	2.35	#VALUE!	
68 Zn	# 3	4.224	4.224	ug/l	2.22	#VALUE!	
70 Ge	# 2	----	--------	ug/l	---------	#VALUE!	
75 As	# 2	-0.004895	-0.004895	ug/l	185.74	#VALUE!	
78 Se	# 1	0.002784	0.002784	ug/l	237.36	#VALUE!	
88 Sr	# 3	0.001938	0.001938	ug/l	43.43	#VALUE!	
90 Zr	# 3	0.1061	0.1061	ug/l	2.95	#VALUE!	
91 Zr	# 3	0.1089	0.1089	ug/l	18.57	#VALUE!	
95 Mo	# 3	0.004793	0.004793	ug/l	110.12	#VALUE!	
107 Ag	# 3	0.00313	0.00313	ug/l	78.50	#VALUE!	
111 Cd	# 3	0.0008201	0.0008201	ug/l	174.49	#VALUE!	
118 Sn	# 3	0.00847	0.00847	ug/l	30.92	#VALUE!	
121 Sb	# 3	0.0139	0.0139	ug/l	24.30	#VALUE!	
137 Ba	# 3	0.0001393	0.0001393	ug/l	1694.90	#VALUE!	
201 Hg	# 3	0.005218	0.005218	ug/l	21.83	#VALUE!	
202 Hg	# 3	0.006438	0.006438	ug/l	8.40	#VALUE!	
203 Tl	# 3	-0.002683	-0.002683	ug/l	39.47	#VALUE!	
205 Tl	# 3	-0.002319	-0.002319	ug/l	2.91	#VALUE!	
208 Pb	# 3	-0.002067	-0.002067	ug/l	50.27	#VALUE!	
232 Th	# 3	0.004624	0.004624	ug/l	19.80	#VALUE!	
238 U	# 3	-0.0002804	-0.0002804	ug/l	26.54	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	673119.06	0.75	643928.69	104.5	60 - 125	
45 Sc	# 1	314442.66	0.95	329114.28	95.5	60 - 125	
45 Sc	# 3	883601.88	0.73	872836.06	101.2	60 - 125	
74 Ge	# 1	115670.74	0.95	122381.69	94.5	60 - 125	
74 Ge	# 2	21128.27	4.03	21667.30	97.5	60 - 125	
74 Ge	# 3	222766.38	1.62	224459.19	99.2	60 - 125	
89 Y	# 3	1254433.10	2.34	1247149.90	100.6	60 - 125	
115 In	# 3	1418856.30	1.39	1396206.60	101.6	60 - 125	
159 Tb	# 3	2098532.00	2.52	2071474.10	101.3	60 - 125	
209 Bi	# 3	1386862.10	2.71	1349994.40	102.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\022SMPL.D\022SMPL.D#
Date Acquired: Mar 23 2009 01:53 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: .5
Misc Info: 1/200 ms cal std 00054
Vial Number: 4501
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.4744	0.4744	ug/l	4.84	#VALUE!	
11 B	# 3	0.9959	0.9959	ug/l	3.93	#VALUE!	
23 Na	# 1	31.86	31.86	ug/l	0.60	#VALUE!	
24 Mg	# 1	52.52	52.52	ug/l	0.84	#VALUE!	
27 Al	# 1	5.199	5.199	ug/l	3.20	#VALUE!	
39 K	# 2	44.48	44.48	ug/l	1.95	#VALUE!	
40 Ca	# 1	50.38	50.38	ug/l	0.74	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.5083	0.5083	ug/l	2.82	#VALUE!	
51 V	# 2	0.4752	0.4752	ug/l	7.69	#VALUE!	
52 Cr	# 2	0.5122	0.5122	ug/l	4.65	#VALUE!	
55 Mn	# 3	4.945	4.945	ug/l	1.26	#VALUE!	
56 Fe	# 1	51.89	51.89	ug/l	0.13	#VALUE!	
59 Co	# 3	0.4705	0.4705	ug/l	1.69	#VALUE!	
60 Ni	# 2	0.4745	0.4745	ug/l	3.42	#VALUE!	
63 Cu	# 2	0.4969	0.4969	ug/l	3.54	#VALUE!	
65 Cu	# 2	0.5255	0.5255	ug/l	2.11	#VALUE!	
65 Cu	# 3	0.512	0.512	ug/l	1.81	#VALUE!	
66 Zn	# 3	0.5088	0.5088	ug/l	6.99	#VALUE!	
68 Zn	# 3	0.4993	0.4993	ug/l	3.33	#VALUE!	
70 Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.4596	0.4596	ug/l	13.91	#VALUE!	
78 Se	# 1	0.4713	0.4713	ug/l	5.26	#VALUE!	
88 Sr	# 3	0.4833	0.4833	ug/l	0.86	#VALUE!	
90 Zr	# 3	3.53	3.53	ug/l	0.18	#VALUE!	
91 Zr	# 3	3.477	3.477	ug/l	1.02	#VALUE!	
95 Mo	# 3	0.4892	0.4892	ug/l	7.08	#VALUE!	
107 Ag	# 3	0.5017	0.5017	ug/l	2.95	#VALUE!	
111 Cd	# 3	0.5088	0.5088	ug/l	2.68	#VALUE!	
118 Sn	# 3	0.4857	0.4857	ug/l	1.83	#VALUE!	
121 Sb	# 3	0.4888	0.4888	ug/l	5.87	#VALUE!	
137 Ba	# 3	0.4856	0.4856	ug/l	4.19	#VALUE!	
201 Hg	# 3	0.03255	0.03255	ug/l	12.32	#VALUE!	
202 Hg	# 3	0.03039	0.03039	ug/l	6.36	#VALUE!	
203 Tl	# 3	0.1043	0.1043	ug/l	3.16	#VALUE!	
205 Tl	# 3	0.09759	0.09759	ug/l	3.84	#VALUE!	
208 Pb	# 3	0.4984	0.4984	ug/l	2.20	#VALUE!	
232 Th	# 3	0.4413	0.4413	ug/l	1.83	#VALUE!	
238 U	# 3	0.4535	0.4535	ug/l	0.78	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	682142.25	0.44	643928.69	105.9	60 - 125	
45 Sc	# 1	315371.09	0.47	329114.28	95.8	60 - 125	
45 Sc	# 3	881874.38	1.50	872836.06	101.0	60 - 125	
74 Ge	# 1	115665.30	0.94	122381.69	94.5	60 - 125	
74 Ge	# 2	21279.98	2.90	21667.30	98.2	60 - 125	
74 Ge	# 3	222422.05	1.66	224459.19	99.1	60 - 125	
89 Y	# 3	1255695.30	1.69	1247149.90	100.7	60 - 125	
115 In	# 3	1415939.50	1.59	1396206.60	101.4	60 - 125	
159 Tb	# 3	2088838.90	0.92	2071474.10	100.8	60 - 125	
209 Bi	# 3	1379491.80	2.11	1349994.40	102.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\023_CCV.D\023_CCV.D#
Date Acquired: Mar 23 2009 01:59 pm
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	50.37 ug/l	0.95	50.00	90 - 110	
11 B	# 3	94.54 ug/l	1.19	100.00	90 - 110	
23 Na	# 1	4970 ug/l	1.03	5000.00	90 - 110	
24 Mg	# 1	5003 ug/l	1.10	5000.00	90 - 110	
27 Al	# 1	501.9 ug/l	0.90	500.00	90 - 110	
39 K	# 2	4994 ug/l	1.23	5000.00	90 - 110	
40 Ca	# 1	4961 ug/l	0.61	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------	---	##### - #####	
47 Ti	# 3	50.26 ug/l	0.59	50.00	90 - 110	
51 V	# 2	49.54 ug/l	0.70	50.00	90 - 110	
52 Cr	# 2	49.55 ug/l	1.00	50.00	90 - 110	
55 Mn	# 3	494.7 ug/l	0.52	500.00	90 - 110	
56 Fe	# 1	5006 ug/l	0.50	5000.00	90 - 110	
59 Co	# 3	49.45 ug/l	0.20	50.00	90 - 110	
60 Ni	# 2	49.87 ug/l	0.60	50.00	90 - 110	
63 Cu	# 2	50.15 ug/l	0.91	50.00	90 - 110	
65 Cu	# 2	49.86 ug/l	1.20	50.00	90 - 110	
65 Cu	# 3	49.94 ug/l	0.16	50.00	90 - 110	
66 Zn	# 3	50.22 ug/l	0.41	50.00	90 - 110	
68 Zn	# 3	49.98 ug/l	0.56	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------	---	##### - #####	
75 As	# 2	49.68 ug/l	0.50	50.00	90 - 110	
78 Se	# 1	48.8 ug/l	0.32	50.00	90 - 110	
88 Sr	# 3	50.25 ug/l	0.81	50.00	90 - 110	
90 Zr	# 3	492.3 ug/l	0.43	500.00	90 - 110	
91 Zr	# 3	500.2 ug/l	0.65	500.00	90 - 110	
95 Mo	# 3	49.76 ug/l	0.37	50.00	90 - 110	
107 Ag	# 3	50.13 ug/l	0.50	50.00	90 - 110	
111 Cd	# 3	50.52 ug/l	1.01	50.00	90 - 110	
118 Sn	# 3	50.2 ug/l	0.36	50.00	90 - 110	
121 Sb	# 3	48.63 ug/l	0.48	50.00	90 - 110	
137 Ba	# 3	49.9 ug/l	0.70	50.00	90 - 110	
201 Hg	# 3	2.737 ug/l	1.24	2.50	90 - 110	
202 Hg	# 3	2.748 ug/l	0.49	2.50	90 - 110	
203 Tl	# 3	9.881 ug/l	0.48	10.00	90 - 110	
205 Tl	# 3	9.83 ug/l	0.69	10.00	90 - 110	
208 Pb	# 3	49.03 ug/l	0.41	50.00	90 - 110	
232 Th	# 3	49.55 ug/l	1.20	---	##### - #####	
238 U	# 3	49.41 ug/l	1.01	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	662956.44	1.12	643928.69	103.0	60 - 125	
45 Sc	# 1	312738.75	0.66	329114.28	95.0	60 - 125	
45 Sc	# 3	892814.88	1.70	872836.06	102.3	60 - 125	
74 Ge	# 1	115328.45	0.80	122381.69	94.2	60 - 125	
74 Ge	# 2	20762.45	3.43	21667.30	95.8	60 - 125	
74 Ge	# 3	220962.63	1.16	224459.19	98.4	60 - 125	
89 Y	# 3	1265968.00	2.14	1247149.90	101.5	60 - 125	
115 In	# 3	1405758.90	1.95	1396206.60	100.7	60 - 125	
159 Tb	# 3	2148456.50	1.49	2071474.10	103.7	60 - 125	
209 Bi	# 3	1355579.60	1.28	1349994.40	100.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\024_CCB.D\024_CCB.D#
Date Acquired: Mar 23 2009 02:06 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
9 Be	0.003284	ug/l	43.64	#VALUE!	
11 B	0.8366	ug/l	3.55	#VALUE!	
23 Na	-17.59	ug/l	0.69	#VALUE!	
24 Mg	0.2482	ug/l	7.69	#VALUE!	
27 Al	0.08545	ug/l	28.30	#VALUE!	
39 K	-3.278	ug/l	16.10	#VALUE!	
40 Ca	0.2563	ug/l	27.66	#VALUE!	
45 Sc	--------	ug/l	--------	#VALUE!	
47 Ti	0.01244	ug/l	23.88	#VALUE!	
51 V	-0.002071	ug/l	156.49	#VALUE!	
52 Cr	0.008059	ug/l	170.74	#VALUE!	
55 Mn	0.03697	ug/l	44.87	#VALUE!	
56 Fe	0.6717	ug/l	2.43	#VALUE!	
59 Co	0.002106	ug/l	54.89	#VALUE!	
60 Ni	-0.0159	ug/l	19.28	#VALUE!	
63 Cu	-0.001033	ug/l	775.12	#VALUE!	
65 Cu	0.01636	ug/l	106.91	#VALUE!	
65 Cu	-0.01667	ug/l	123.34	#VALUE!	
66 Zn	-0.002453	ug/l	929.07	#VALUE!	
68 Zn	0.02198	ug/l	186.26	#VALUE!	
70 Ge	--------	ug/l	--------	#VALUE!	
75 As	0.009937	ug/l	64.03	#VALUE!	
78 Se	0.0391	ug/l	7.99	#VALUE!	
88 Sr	0.004648	ug/l	46.08	#VALUE!	
90 Zr	0.4019	ug/l	3.60	#VALUE!	
91 Zr	0.3957	ug/l	7.92	#VALUE!	
95 Mo	0.08274	ug/l	10.70	#VALUE!	
107 Ag	0.008135	ug/l	46.64	#VALUE!	
111 Cd	0.004824	ug/l	67.79	#VALUE!	
118 Sn	0.03502	ug/l	18.34	#VALUE!	
121 Sb	0.01848	ug/l	26.50	#VALUE!	
137 Ba	0.001672	ug/l	146.29	#VALUE!	
201 Hg	0.03071	ug/l	18.73	#VALUE!	
202 Hg	0.03178	ug/l	5.79	#VALUE!	
203 Tl	0.02032	ug/l	32.60	#VALUE!	
205 Tl	0.02047	ug/l	14.78	#VALUE!	
208 Pb	0.004931	ug/l	32.23	#VALUE!	
232 Th	0.06209	ug/l	7.74	#VALUE!	
238 U	0.007859	ug/l	32.60	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	700604.31	0.95	643928.69	108.8	60 - 125	
45 Sc	318123.16	0.98	329114.28	96.7	60 - 125	
45 Sc	895615.38	1.93	872836.06	102.6	60 - 125	
74 Ge	115367.41	0.99	122381.69	94.3	60 - 125	
74 Ge	21318.16	3.50	21667.30	98.4	60 - 125	
74 Ge	220679.77	1.72	224459.19	98.3	60 - 125	
89 Y	1270306.50	1.60	1247149.90	101.9	60 - 125	
115 In	1444498.60	1.87	1396206.60	103.5	60 - 125	
159 Tb	2136715.00	2.71	2071474.10	103.1	60 - 125	
209 Bi	1398156.10	1.59	1349994.40	103.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\025SMPL.D\025SMPL.D#
Date Acquired:	Mar 23 2009 02:13 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	ICSA
Misc Info:	MSICSA 00020
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnoxm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.002415	0.002415	ug/l	64.56	#VALUE!	
11	B	# 3	0.4616	0.4616	ug/l	6.84	#VALUE!	
23	Na	# 1	95060	95060	ug/l	0.95	#VALUE!	
24	Mg	# 1	91030	91030	ug/l	0.76	#VALUE!	
27	Al	# 1	90910	90910	ug/l	0.56	#VALUE!	
39	K	# 2	100100	100100	ug/l	0.17	#VALUE!	
40	Ca	# 1	96990	96990	ug/l	0.53	#VALUE!	
45	Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47	Ti	# 3	2105	2105	ug/l	1.13	#VALUE!	
51	V	# 2	0.06351	0.06351	ug/l	14.14	#VALUE!	
52	Cr	# 2	1.016	1.016	ug/l	3.34	#VALUE!	
55	Mn	# 3	2.182	2.182	ug/l	0.07	#VALUE!	
56	Fe	# 1	95310	95310	ug/l	0.67	#VALUE!	
59	Co	# 3	0.1824	0.1824	ug/l	9.22	#VALUE!	
60	Ni	# 2	0.675	0.675	ug/l	4.95	#VALUE!	
63	Cu	# 2	0.09773	0.09773	ug/l	2.64	#VALUE!	
65	Cu	# 2	0.256	0.256	ug/l	11.29	#VALUE!	
65	Cu	# 3	1.716	1.716	ug/l	4.30	#VALUE!	
66	Zn	# 3	2.856	2.856	ug/l	2.22	#VALUE!	
68	Zn	# 3	1.426	1.426	ug/l	2.94	#VALUE!	
70	Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75	As	# 2	0.1537	0.1537	ug/l	5.71	#VALUE!	
78	Se	# 1	0.06038	0.06038	ug/l	13.15	#VALUE!	
88	Sr	# 3	2.595	2.595	ug/l	0.62	#VALUE!	
90	Zr	# 3	4.039	4.039	ug/l	9.85	#VALUE!	
91	Zr	# 3	4.031	4.031	ug/l	11.12	#VALUE!	
95	Mo	# 3	2048	2048	ug/l	0.51	#VALUE!	
107	Ag	# 3	0.0699	0.0699	ug/l	3.69	#VALUE!	
111	Cd	# 3	-0.0628	-0.0628	ug/l	176.59	#VALUE!	
118	Sn	# 3	0.06202	0.06202	ug/l	6.80	#VALUE!	
121	Sb	# 3	0.1885	0.1885	ug/l	8.01	#VALUE!	
137	Ba	# 3	1.462	1.462	ug/l	2.16	#VALUE!	
201	Hg	# 3	0.01801	0.01801	ug/l	18.06	#VALUE!	
202	Hg	# 3	0.0199	0.0199	ug/l	15.57	#VALUE!	
203	Tl	# 3	0.0343	0.0343	ug/l	1.60	#VALUE!	
205	Tl	# 3	0.0327	0.0327	ug/l	6.96	#VALUE!	
208	Pb	# 3	0.08677	0.08677	ug/l	2.87	#VALUE!	
232	Th	# 3	0.08749	0.08749	ug/l	9.74	#VALUE!	
238	U	# 3	0.003486	0.003486	ug/l	8.02	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	627582.31	2.41	643928.69	97.5	60 - 125	
45	Sc	# 1	302112.41	1.46	329114.28	91.8	60 - 125	
45	Sc	# 3	872832.44	0.95	872836.06	100.0	60 - 125	
74	Ge	# 1	98403.89	1.50	122381.69	80.4	60 - 125	
74	Ge	# 2	17972.33	2.95	21667.30	82.9	60 - 125	
74	Ge	# 3	193271.89	1.96	224459.19	86.1	60 - 125	
89	Y	# 3	1257694.60	1.94	1247149.90	100.8	60 - 125	
115	In	# 3	1313727.80	1.75	1396206.60	94.1	60 - 125	
159	Tb	# 3	2113040.00	2.23	2071474.10	102.0	60 - 125	
209	Bi	# 3	1139634.40	1.83	1349994.40	84.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\026SMPL.D\026SMPL.D#
Date Acquired:	Mar 23 2009 02:20 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	ICSAB
Misc Info:	MSICSAB 00022
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.001385	0.001385	ug/l	47.39	#VALUE!	
11 B	# 3	0.2756	0.2756	ug/l	15.56	#VALUE!	
23 Na	# 1	94380	94380	ug/l	0.93	#VALUE!	
24 Mg	# 1	89850	89850	ug/l	0.97	#VALUE!	
27 Al	# 1	89640	89640	ug/l	0.51	#VALUE!	
39 K	# 2	101600	101600	ug/l	1.04	#VALUE!	
40 Ca	# 1	97110	97110	ug/l	1.05	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	2127	2127	ug/l	0.44	#VALUE!	
51 V	# 2	0.0653	0.0653	ug/l	9.72	#VALUE!	
52 Cr	# 2	22.43	22.43	ug/l	0.54	#VALUE!	
55 Mn	# 3	23.36	23.36	ug/l	0.08	#VALUE!	
56 Fe	# 1	97410	97410	ug/l	0.77	#VALUE!	
59 Co	# 3	19.93	19.93	ug/l	0.83	#VALUE!	
60 Ni	# 2	21.11	21.11	ug/l	0.58	#VALUE!	
63 Cu	# 2	19.45	19.45	ug/l	1.09	#VALUE!	
65 Cu	# 2	19.5	19.5	ug/l	1.22	#VALUE!	
65 Cu	# 3	20.87	20.87	ug/l	0.06	#VALUE!	
66 Zn	# 3	20.67	20.67	ug/l	0.55	#VALUE!	
68 Zn	# 3	18.51	18.51	ug/l	0.76	#VALUE!	
70 Ge	# 2	----	---------	ug/l	--------	#VALUE!	
75 As	# 2	20.13	20.13	ug/l	1.21	#VALUE!	
78 Se	# 1	0.04994	0.04994	ug/l	9.99	#VALUE!	
88 Sr	# 3	2.623	2.623	ug/l	1.66	#VALUE!	
90 Zr	# 3	1.915	1.915	ug/l	5.60	#VALUE!	
91 Zr	# 3	1.912	1.912	ug/l	5.85	#VALUE!	
95 Mo	# 3	2077	2077	ug/l	0.69	#VALUE!	
107 Ag	# 3	16.8	16.8	ug/l	0.50	#VALUE!	
111 Cd	# 3	17.7	17.7	ug/l	0.61	#VALUE!	
118 Sn	# 3	0.05201	0.05201	ug/l	13.35	#VALUE!	
121 Sb	# 3	0.2054	0.2054	ug/l	1.83	#VALUE!	
137 Ba	# 3	1.529	1.529	ug/l	3.43	#VALUE!	
201 Hg	# 3	0.01797	0.01797	ug/l	24.74	#VALUE!	
202 Hg	# 3	0.01896	0.01896	ug/l	13.79	#VALUE!	
203 Tl	# 3	0.02858	0.02858	ug/l	3.44	#VALUE!	
205 Tl	# 3	0.0291	0.0291	ug/l	4.37	#VALUE!	
208 Pb	# 3	0.08809	0.08809	ug/l	3.28	#VALUE!	
232 Th	# 3	0.04481	0.04481	ug/l	5.93	#VALUE!	
238 U	# 3	0.002762	0.002762	ug/l	7.06	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	631447.94	2.77	643928.69	98.1	60 - 125	
45 Sc	# 1	295520.72	2.24	329114.28	89.8	60 - 125	
45 Sc	# 3	881925.69	1.05	872836.06	101.0	60 - 125	
74 Ge	# 1	97415.02	1.97	122381.69	79.6	60 - 125	
74 Ge	# 2	16954.29	3.11	21667.30	78.2	60 - 125	
74 Ge	# 3	194163.41	1.20	224459.19	86.5	60 - 125	
89 Y	# 3	1271073.10	1.95	1247149.90	101.9	60 - 125	
115 In	# 3	1319432.00	1.09	1396206.60	94.5	60 - 125	
159 Tb	# 3	2102152.80	1.46	2071474.10	101.5	60 - 125	
209 Bi	# 3	1122393.40	1.89	1349994.40	83.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\027SMPL.D\027SMPL.D#		
Date Acquired:	Mar 23 2009 02:27 pm		
Acq. Method:	EPA2002.M		
Operator:	BB		
Sample Name:	1PPM		
Misc Info:	MS LINNG 00011 1/20		
Vial Number:	4510		
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M		
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C		
Last Cal. Update:	Mar 23 2009 12:56 pm		
Sample Type:	Sample	Tune Step	
Dilution Factor:	1.00	1	babh2.u
Autodil Factor:	Undiluted	2	babhe.u
Final Dil Factor:	1.00	3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0002619	-0.0002619	ug/l	242.80	#VALUE!	
11 B	# 3	968.9	968.9	ug/l	2.42	#VALUE!	
23 Na	# 1	14.55	14.55	ug/l	135.40	#VALUE!	
24 Mg	# 1	42.17	42.17	ug/l	47.64	#VALUE!	
27 Al	# 1	41.82	41.82	ug/l	48.59	#VALUE!	
39 K	# 2	-6.676	-6.676	ug/l	12.54	#VALUE!	
40 Ca	# 1	43.96	43.96	ug/l	50.27	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	1025	1025	ug/l	1.27	#VALUE!	
51 V	# 2	1082	1082	ug/l	0.37	#VALUE!	
52 Cr	# 2	1030	1030	ug/l	0.19	#VALUE!	
55 Mn	# 3	1016	1016	ug/l	0.05	#VALUE!	
56 Fe	# 1	51.5	51.5	ug/l	43.52	#VALUE!	
59 Co	# 3	988.8	988.8	ug/l	0.75	#VALUE!	
60 Ni	# 2	1051	1051	ug/l	1.04	#VALUE!	
63 Cu	# 2	1088	1088	ug/l	0.79	#VALUE!	
65 Cu	# 2	1089	1089	ug/l	0.60	#VALUE!	
65 Cu	# 3	1061	1061	ug/l	0.78	#VALUE!	
66 Zn	# 3	1042	1042	ug/l	0.59	#VALUE!	
68 Zn	# 3	1057	1057	ug/l	1.24	#VALUE!	
70 Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.7082	0.7082	ug/l	5.87	#VALUE!	
78 Se	# 1	0.008118	0.008118	ug/l	54.85	#VALUE!	
88 Sr	# 3	1017	1017	ug/l	0.75	#VALUE!	
90 Zr	# 3	4.818	4.818	ug/l	8.92	#VALUE!	
91 Zr	# 3	4.801	4.801	ug/l	6.22	#VALUE!	
95 Mo	# 3	958.9	958.9	ug/l	0.80	#VALUE!	
107 Ag	# 3	0.1022	0.1022	ug/l	5.00	#VALUE!	
111 Cd	# 3	0.008107	0.008107	ug/l	679.54	#VALUE!	
118 Sn	# 3	1010	1010	ug/l	0.75	#VALUE!	
121 Sb	# 3	0.03702	0.03702	ug/l	10.05	#VALUE!	
137 Ba	# 3	1003	1003	ug/l	1.01	#VALUE!	
201 Hg	# 3	0.004213	0.004213	ug/l	20.03	#VALUE!	
202 Hg	# 3	0.006442	0.006442	ug/l	5.71	#VALUE!	
203 Tl	# 3	0.001043	0.001043	ug/l	52.00	#VALUE!	
205 Tl	# 3	0.003	0.003	ug/l	17.61	#VALUE!	
208 Pb	# 3	1003	1003	ug/l	0.83	#VALUE!	
232 Th	# 3	0.03471	0.03471	ug/l	3.26	#VALUE!	
238 U	# 3	0.001593	0.001593	ug/l	24.90	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	591506.00	2.94	643928.69	91.9	60 - 125	
45 Sc	# 1	270472.81	1.08	329114.28	82.2	60 - 125	
45 Sc	# 3	774215.63	1.01	872836.06	88.7	60 - 125	
74 Ge	# 1	99692.95	0.98	122381.69	81.5	60 - 125	
74 Ge	# 2	16896.06	2.83	21667.30	78.0	60 - 125	
74 Ge	# 3	190716.22	1.43	224459.19	85.0	60 - 125	
89 Y	# 3	1131321.30	0.60	1247149.90	90.7	60 - 125	
115 In	# 3	1283326.50	0.80	1396206.60	91.9	60 - 125	
159 Tb	# 3	1951445.80	1.84	2071474.10	94.2	60 - 125	
209 Bi	# 3	1287828.00	1.93	1349994.40	95.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\028SMPL.D\028SMPL.D#
Date Acquired:	Mar 23 2009 02:33 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	2PPM
Misc Info:	MS LINNG 000011 1/10
Vial Number:	4512
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.01642	0.01642	ug/l	159.38	#VALUE!	
11 B	# 3	1928	1928	ug/l	1.15	#VALUE!	
23 Na	# 1	-24.29	-24.29	ug/l	3.98	#VALUE!	
24 Mg	# 1	5.162	5.162	ug/l	20.13	#VALUE!	
27 Al	# 1	5.146	5.146	ug/l	18.12	#VALUE!	
39 K	# 2	-3.007	-3.007	ug/l	41.84	#VALUE!	
40 Ca	# 1	6.422	6.422	ug/l	14.01	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	2021	2021	ug/l	1.06	#VALUE!	
51 V	# 2	2129	2129	ug/l	0.82	#VALUE!	
52 Cr	# 2	1998	1998	ug/l	0.98	#VALUE!	
55 Mn	# 3	2005	2005	ug/l	1.09	#VALUE!	
56 Fe	# 1	6.829	6.829	ug/l	15.77	#VALUE!	
59 Co	# 3	1944	1944	ug/l	0.62	#VALUE!	
60 Ni	# 2	2115	2115	ug/l	1.66	#VALUE!	
63 Cu	# 2	2094	2094	ug/l	1.91	#VALUE!	
65 Cu	# 2	2151	2151	ug/l	1.34	#VALUE!	
65 Cu	# 3	2083	2083	ug/l	0.59	#VALUE!	
66 Zn	# 3	2043	2043	ug/l	0.84	#VALUE!	
68 Zn	# 3	2070	2070	ug/l	0.91	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	1.435	1.435	ug/l	6.36	#VALUE!	
78 Se	# 1	0.008281	0.008281	ug/l	46.92	#VALUE!	
88 Sr	# 3	2033	2033	ug/l	1.11	#VALUE!	
90 Zr	# 3	4.064	4.064	ug/l	12.24	#VALUE!	
91 Zr	# 3	4.04	4.04	ug/l	11.00	#VALUE!	
95 Mo	# 3	1924	1924	ug/l	0.87	#VALUE!	
107 Ag	# 3	0.1994	0.1994	ug/l	18.14	#VALUE!	
111 Cd	# 3	0.04635	0.04635	ug/l	52.51	#VALUE!	
118 Sn	# 3	2029	2029	ug/l	0.40	#VALUE!	
121 Sb	# 3	0.08194	0.08194	ug/l	35.25	#VALUE!	
137 Ba	# 3	2007	2007	ug/l	1.02	#VALUE!	
201 Hg	# 3	0.00464	0.00464	ug/l	51.79	#VALUE!	
202 Hg	# 3	0.00759	0.00759	ug/l	37.13	#VALUE!	
203 Tl	# 3	0.002843	0.002843	ug/l	145.20	#VALUE!	
205 Tl	# 3	0.01047	0.01047	ug/l	49.74	#VALUE!	
208 Pb	# 3	2001	2001	ug/l	1.53	#VALUE!	
232 Th	# 3	0.04443	0.04443	ug/l	54.58	#VALUE!	
238 U	# 3	0.01603	0.01603	ug/l	138.80	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	550444.44	2.21	643928.69	85.5	60 - 125	
45 Sc	# 1	258526.80	0.41	329114.28	78.6	60 - 125	
45 Sc	# 3	737627.31	1.15	872836.06	84.5	60 - 125	
74 Ge	# 1	95197.46	0.29	122381.69	77.8	60 - 125	
74 Ge	# 2	16235.92	3.65	21667.30	74.9	60 - 125	
74 Ge	# 3	182075.75	1.30	224459.19	81.1	60 - 125	
89 Y	# 3	1078874.00	1.59	1247149.90	86.5	60 - 125	
115 In	# 3	1210221.90	1.34	1396206.60	86.7	60 - 125	
159 Tb	# 3	1897922.00	1.46	2071474.10	91.6	60 - 125	
209 Bi	# 3	1253959.40	1.86	1349994.40	92.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\029SMPL.D\029SMPL.D#
Date Acquired: Mar 23 2009 02:40 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: Rinse
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnoxm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	-0.0009959	-0.0009959	ug/l	0.00	#VALUE!	
11	B	# 3	19.64	19.64	ug/l	5.99	#VALUE!	
23	Na	# 1	-26.42	-26.42	ug/l	0.77	#VALUE!	
24	Mg	# 1	2.578	2.578	ug/l	2.99	#VALUE!	
27	Al	# 1	2.614	2.614	ug/l	4.04	#VALUE!	
39	K	# 2	-4.66	-4.66	ug/l	20.25	#VALUE!	
40	Ca	# 1	3.098	3.098	ug/l	6.23	#VALUE!	
45	Sc	# 2	----	---------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.2081	0.2081	ug/l	9.38	#VALUE!	
51	V	# 2	0.07294	0.07294	ug/l	7.95	#VALUE!	
52	Cr	# 2	0.06059	0.06059	ug/l	10.37	#VALUE!	
55	Mn	# 3	0.07465	0.07465	ug/l	12.29	#VALUE!	
56	Fe	# 1	3.314	3.314	ug/l	1.82	#VALUE!	
59	Co	# 3	0.0684	0.0684	ug/l	20.45	#VALUE!	
60	Ni	# 2	0.06751	0.06751	ug/l	46.57	#VALUE!	
63	Cu	# 2	0.1872	0.1872	ug/l	3.44	#VALUE!	
65	Cu	# 2	0.2049	0.2049	ug/l	16.14	#VALUE!	
65	Cu	# 3	0.3136	0.3136	ug/l	9.62	#VALUE!	
66	Zn	# 3	0.3522	0.3522	ug/l	4.86	#VALUE!	
68	Zn	# 3	0.332	0.332	ug/l	17.82	#VALUE!	
70	Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75	As	# 2	0.001306	0.001306	ug/l	691.58	#VALUE!	
78	Se	# 1	0.000472	0.000472	ug/l	176.97	#VALUE!	
88	Sr	# 3	0.07539	0.07539	ug/l	15.52	#VALUE!	
90	Zr	# 3	-0.01156	-0.01156	ug/l	25.88	#VALUE!	
91	Zr	# 3	-0.01207	-0.01207	ug/l	63.17	#VALUE!	
95	Mo	# 3	2.046	2.046	ug/l	10.21	#VALUE!	
107	Ag	# 3	0.002526	0.002526	ug/l	57.28	#VALUE!	
111	Cd	# 3	0.003387	0.003387	ug/l	120.76	#VALUE!	
118	Sn	# 3	1.226	1.226	ug/l	6.22	#VALUE!	
121	Sb	# 3	0.002479	0.002479	ug/l	44.21	#VALUE!	
137	Ba	# 3	0.0695	0.0695	ug/l	23.64	#VALUE!	
201	Hg	# 3	0.003648	0.003648	ug/l	70.42	#VALUE!	
202	Hg	# 3	0.004909	0.004909	ug/l	4.16	#VALUE!	
203	Tl	# 3	-0.002996	-0.002996	ug/l	23.34	#VALUE!	
205	Tl	# 3	-0.002577	-0.002577	ug/l	42.10	#VALUE!	
208	Pb	# 3	0.1245	0.1245	ug/l	1.47	#VALUE!	
232	Th	# 3	0.0009526	0.0009526	ug/l	62.59	#VALUE!	
238	U	# 3	-0.0002505	-0.0002505	ug/l	69.66	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	558108.63	1.70	643928.69	86.7	60 - 125	
45	Sc	# 1	252566.16	0.64	329114.28	76.7	60 - 125	
45	Sc	# 3	737653.50	2.14	872836.06	84.5	60 - 125	
74	Ge	# 1	93970.88	1.07	122381.69	76.8	60 - 125	
74	Ge	# 2	16739.18	3.91	21667.30	77.3	60 - 125	
74	Ge	# 3	184605.48	2.46	224459.19	82.2	60 - 125	
89	Y	# 3	1072458.10	1.82	1247149.90	86.0	60 - 125	
115	In	# 3	1238576.00	1.62	1396206.60	88.7	60 - 125	
159	Tb	# 3	1875112.00	1.94	2071474.10	90.5	60 - 125	
209	Bi	# 3	1231487.60	2.06	1349994.40	91.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\030SMPL.D\030SMPL.D#		
Date Acquired:	Mar 23 2009 02:47 pm		
Acq. Method:	EPA2002.M		
Operator:	BB		
Sample Name:	Rinse		
Misc Info:			
Vial Number:	1207		
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M		
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C		
Last Cal. Update:	Mar 23 2009 12:56 pm		
Sample Type:	Sample	Tune Step	
Dilution Factor:	1.00	1	babh2.u
Autodil Factor:	Undiluted	2	babhe.u
Final Dil Factor:	1.00	3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	-0.0006027	-0.0006027	ug/l	112.99	#VALUE!	
11	B	# 3	8.343	8.343	ug/l	4.53	#VALUE!	
23	Na	# 1	-26.15	-26.15	ug/l	1.26	#VALUE!	
24	Mg	# 1	2.578	2.578	ug/l	4.76	#VALUE!	
27	Al	# 1	2.56	2.56	ug/l	2.64	#VALUE!	
39	K	# 2	-4.18	-4.18	ug/l	2.30	#VALUE!	
40	Ca	# 1	2.907	2.907	ug/l	4.00	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.1609	0.1609	ug/l	11.80	#VALUE!	
51	V	# 2	0.05139	0.05139	ug/l	24.15	#VALUE!	
52	Cr	# 2	0.06036	0.06036	ug/l	3.37	#VALUE!	
55	Mn	# 3	0.04503	0.04503	ug/l	14.04	#VALUE!	
56	Fe	# 1	3.055	3.055	ug/l	0.61	#VALUE!	
59	Co	# 3	0.0431	0.0431	ug/l	6.01	#VALUE!	
60	Ni	# 2	0.06052	0.06052	ug/l	28.09	#VALUE!	
63	Cu	# 2	0.1129	0.1129	ug/l	1.02	#VALUE!	
65	Cu	# 2	0.1426	0.1426	ug/l	14.30	#VALUE!	
65	Cu	# 3	0.1521	0.1521	ug/l	2.41	#VALUE!	
66	Zn	# 3	0.2791	0.2791	ug/l	7.25	#VALUE!	
68	Zn	# 3	0.2981	0.2981	ug/l	6.12	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	-0.006224	-0.006224	ug/l	162.28	#VALUE!	
78	Se	# 1	0.002458	0.002458	ug/l	161.19	#VALUE!	
88	Sr	# 3	0.04628	0.04628	ug/l	4.31	#VALUE!	
90	Zr	# 3	-0.01106	-0.01106	ug/l	16.72	#VALUE!	
91	Zr	# 3	-0.01132	-0.01132	ug/l	42.99	#VALUE!	
95	Mo	# 3	0.7889	0.7889	ug/l	2.14	#VALUE!	
107	Ag	# 3	0.003777	0.003777	ug/l	15.95	#VALUE!	
111	Cd	# 3	-0.0002233	-0.0002233	ug/l	365.07	#VALUE!	
118	Sn	# 3	0.4996	0.4996	ug/l	4.45	#VALUE!	
121	Sb	# 3	0.000804	0.000804	ug/l	100.66	#VALUE!	
137	Ba	# 3	0.0474	0.0474	ug/l	3.50	#VALUE!	
201	Hg	# 3	0.004045	0.004045	ug/l	14.06	#VALUE!	
202	Hg	# 3	0.00424	0.00424	ug/l	1.71	#VALUE!	
203	Tl	# 3	-0.002759	-0.002759	ug/l	45.74	#VALUE!	
205	Tl	# 3	-0.003536	-0.003536	ug/l	8.27	#VALUE!	
208	Pb	# 3	0.06808	0.06808	ug/l	5.71	#VALUE!	
232	Th	# 3	0.001672	0.001672	ug/l	44.61	#VALUE!	
238	U	# 3	-2.318E-006	-2.318E-006	ug/l	4082.40	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	548645.81	1.95	643928.69	85.2	60 - 125	
45	Sc	# 1	253172.92	1.16	329114.28	76.9	60 - 125	
45	Sc	# 3	721333.06	2.50	872836.06	82.6	60 - 125	
74	Ge	# 1	94190.27	0.84	122381.69	77.0	60 - 125	
74	Ge	# 2	16582.31	3.67	21667.30	76.5	60 - 125	
74	Ge	# 3	182539.16	1.66	224459.19	81.3	60 - 125	
89	Y	# 3	1058744.00	2.02	1247149.90	84.9	60 - 125	
115	In	# 3	1219122.30	2.33	1396206.60	87.3	60 - 125	
159	Tb	# 3	1847702.90	2.19	2071474.10	89.2	60 - 125	
209	Bi	# 3	1210765.60	2.24	1349994.40	89.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\031SMPL.D\031SMPL.D#
Date Acquired: Mar 23 2009 02:54 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: Rinse
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.0001413	0.0001413	ug/l	806.79	#VALUE!	
11	B	# 3	4.848	4.848	ug/l	3.04	#VALUE!	
23	Na	# 1	-26.02	-26.02	ug/l	0.41	#VALUE!	
24	Mg	# 1	2.312	2.312	ug/l	2.06	#VALUE!	
27	Al	# 1	2.427	2.427	ug/l	7.08	#VALUE!	
39	K	# 2	-4.422	-4.422	ug/l	31.55	#VALUE!	
40	Ca	# 1	2.879	2.879	ug/l	2.21	#VALUE!	
45	Sc	# 2	----	---------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.1147	0.1147	ug/l	36.10	#VALUE!	
51	V	# 2	0.04534	0.04534	ug/l	7.31	#VALUE!	
52	Cr	# 2	0.06208	0.06208	ug/l	8.30	#VALUE!	
55	Mn	# 3	0.0462	0.0462	ug/l	7.44	#VALUE!	
56	Fe	# 1	2.91	2.91	ug/l	1.60	#VALUE!	
59	Co	# 3	0.03592	0.03592	ug/l	15.57	#VALUE!	
60	Ni	# 2	0.0534	0.0534	ug/l	27.88	#VALUE!	
63	Cu	# 2	0.0962	0.0962	ug/l	8.09	#VALUE!	
65	Cu	# 2	0.1111	0.1111	ug/l	32.47	#VALUE!	
65	Cu	# 3	0.1715	0.1715	ug/l	6.75	#VALUE!	
66	Zn	# 3	0.3167	0.3167	ug/l	4.05	#VALUE!	
68	Zn	# 3	0.3096	0.3096	ug/l	7.81	#VALUE!	
70	Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75	As	# 2	-0.001298	-0.001298	ug/l	1453.00	#VALUE!	
78	Se	# 1	0.002971	0.002971	ug/l	205.25	#VALUE!	
88	Sr	# 3	0.043	0.043	ug/l	10.78	#VALUE!	
90	Zr	# 3	-0.00855	-0.00855	ug/l	42.34	#VALUE!	
91	Zr	# 3	-0.0117	-0.0117	ug/l	52.44	#VALUE!	
95	Mo	# 3	0.4881	0.4881	ug/l	2.66	#VALUE!	
107	Ag	# 3	0.003825	0.003825	ug/l	19.57	#VALUE!	
111	Cd	# 3	0.0009968	0.0009968	ug/l	3.61	#VALUE!	
118	Sn	# 3	0.3242	0.3242	ug/l	2.95	#VALUE!	
121	Sb	# 3	0.00167	0.00167	ug/l	73.17	#VALUE!	
137	Ba	# 3	0.04835	0.04835	ug/l	28.17	#VALUE!	
201	Hg	# 3	0.002811	0.002811	ug/l	18.73	#VALUE!	
202	Hg	# 3	0.0034	0.0034	ug/l	23.65	#VALUE!	
203	Tl	# 3	-0.003809	-0.003809	ug/l	21.02	#VALUE!	
205	Tl	# 3	-0.003141	-0.003141	ug/l	15.36	#VALUE!	
208	Pb	# 3	0.05878	0.05878	ug/l	5.13	#VALUE!	
232	Th	# 3	0.001788	0.001788	ug/l	10.23	#VALUE!	
238	U	# 3	-3.865E-005	-3.865E-005	ug/l	164.61	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	560064.88	1.39	643928.69	87.0	60 - 125	
45	Sc	# 1	255637.56	0.75	329114.28	77.7	60 - 125	
45	Sc	# 3	743299.69	1.91	872836.06	85.2	60 - 125	
74	Ge	# 1	94161.47	0.47	122381.69	76.9	60 - 125	
74	Ge	# 2	17067.41	2.84	21667.30	78.8	60 - 125	
74	Ge	# 3	184520.72	1.82	224459.19	82.2	60 - 125	
89	Y	# 3	1070195.30	1.96	1247149.90	85.8	60 - 125	
115	In	# 3	1227998.40	1.75	1396206.60	88.0	60 - 125	
159	Tb	# 3	1872520.80	1.36	2071474.10	90.4	60 - 125	
209	Bi	# 3	1231172.30	2.55	1349994.40	91.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\032SMPL.D\032SMPL.D#
Date Acquired: Mar 23 2009 03:00 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: Rinse
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	-0.0006166	-0.0006166	ug/l	106.55	#VALUE!	
11	B	# 3	3.149	3.149	ug/l	5.09	#VALUE!	
23	Na	# 1	-26.01	-26.01	ug/l	0.87	#VALUE!	
24	Mg	# 1	2.437	2.437	ug/l	2.63	#VALUE!	
27	Al	# 1	2.508	2.508	ug/l	1.60	#VALUE!	
39	K	# 2	-4.277	-4.277	ug/l	26.96	#VALUE!	
40	Ca	# 1	2.926	2.926	ug/l	0.62	#VALUE!	
45	Sc	# 2	-----	---------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.1115	0.1115	ug/l	17.58	#VALUE!	
51	V	# 2	0.03354	0.03354	ug/l	39.95	#VALUE!	
52	Cr	# 2	0.06129	0.06129	ug/l	23.81	#VALUE!	
55	Mn	# 3	0.04251	0.04251	ug/l	2.39	#VALUE!	
56	Fe	# 1	2.868	2.868	ug/l	2.34	#VALUE!	
59	Co	# 3	0.03489	0.03489	ug/l	6.32	#VALUE!	
60	Ni	# 2	0.0672	0.0672	ug/l	14.84	#VALUE!	
63	Cu	# 2	0.08451	0.08451	ug/l	23.55	#VALUE!	
65	Cu	# 2	0.09404	0.09404	ug/l	8.89	#VALUE!	
65	Cu	# 3	0.1159	0.1159	ug/l	6.40	#VALUE!	
66	Zn	# 3	0.2805	0.2805	ug/l	10.35	#VALUE!	
68	Zn	# 3	0.2982	0.2982	ug/l	1.24	#VALUE!	
70	Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75	As	# 2	0.003972	0.003972	ug/l	180.61	#VALUE!	
78	Se	# 1	0.003764	0.003764	ug/l	133.53	#VALUE!	
88	Sr	# 3	0.03847	0.03847	ug/l	8.83	#VALUE!	
90	Zr	# 3	-0.009281	-0.009281	ug/l	2.90	#VALUE!	
91	Zr	# 3	-0.01299	-0.01299	ug/l	63.83	#VALUE!	
95	Mo	# 3	0.3786	0.3786	ug/l	4.03	#VALUE!	
107	Ag	# 3	0.00284	0.00284	ug/l	64.89	#VALUE!	
111	Cd	# 3	0.001095	0.001095	ug/l	131.96	#VALUE!	
118	Sn	# 3	0.2218	0.2218	ug/l	1.45	#VALUE!	
121	Sb	# 3	0.00297	0.00297	ug/l	40.57	#VALUE!	
137	Ba	# 3	0.03739	0.03739	ug/l	12.08	#VALUE!	
201	Hg	# 3	0.004706	0.004706	ug/l	63.28	#VALUE!	
202	Hg	# 3	0.002893	0.002893	ug/l	13.03	#VALUE!	
203	Tl	# 3	-0.003262	-0.003262	ug/l	31.42	#VALUE!	
205	Tl	# 3	-0.003516	-0.003516	ug/l	13.20	#VALUE!	
208	Pb	# 3	0.04911	0.04911	ug/l	10.37	#VALUE!	
232	Th	# 3	0.002271	0.002271	ug/l	39.71	#VALUE!	
238	U	# 3	-3.987E-006	-3.987E-006	ug/l	4885.90	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	567690.94	3.98	643928.69	88.2	60 - 125	
45	Sc	# 1	259718.28	0.84	329114.28	78.9	60 - 125	
45	Sc	# 3	742830.69	2.02	872836.06	85.1	60 - 125	
74	Ge	# 1	95733.71	0.60	122381.69	78.2	60 - 125	
74	Ge	# 2	17306.60	4.83	21667.30	79.9	60 - 125	
74	Ge	# 3	184694.53	1.95	224459.19	82.3	60 - 125	
89	Y	# 3	1068790.30	2.54	1247149.90	85.7	60 - 125	
115	In	# 3	1230885.60	1.70	1396206.60	88.2	60 - 125	
159	Tb	# 3	1866657.30	1.66	2071474.10	90.1	60 - 125	
209	Bi	# 3	1221917.40	2.58	1349994.40	90.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\034_CCB.D\034_CCB.D#
Date Acquired: Mar 23 2009 03:14 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.005914 ug/l	50.10	#VALUE!	
11 B	2.272 ug/l	6.57	#VALUE!	
23 Na	-27.34 ug/l	1.07	#VALUE!	
24 Mg	0.9186 ug/l	8.24	#VALUE!	
27 Al	0.4149 ug/l	6.91	#VALUE!	
39 K	-6.085 ug/l	16.47	#VALUE!	
40 Ca	0.8386 ug/l	5.59	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.02776 ug/l	61.92	#VALUE!	
51 V	0.005692 ug/l	123.10	#VALUE!	
52 Cr	0.003882 ug/l	97.68	#VALUE!	
55 Mn	0.08473 ug/l	35.11	#VALUE!	
56 Fe	1.381 ug/l	3.57	#VALUE!	
59 Co	0.007565 ug/l	41.44	#VALUE!	
60 Ni	0.001279 ug/l	1078.20	#VALUE!	
63 Cu	0.02459 ug/l	18.10	#VALUE!	
65 Cu	0.01302 ug/l	43.75	#VALUE!	
65 Cu	0.02991 ug/l	28.24	#VALUE!	
66 Zn	-0.003336 ug/l	127.64	#VALUE!	
68 Zn	0.02574 ug/l	116.98	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.002404 ug/l	447.59	#VALUE!	
78 Se	0.04551 ug/l	16.71	#VALUE!	
88 Sr	0.01065 ug/l	35.02	#VALUE!	
90 Zr	0.4186 ug/l	6.11	#VALUE!	
91 Zr	0.3993 ug/l	9.98	#VALUE!	
95 Mo	0.2199 ug/l	13.66	#VALUE!	
107 Ag	0.01557 ug/l	22.44	#VALUE!	
111 Cd	0.01228 ug/l	13.83	#VALUE!	
118 Sn	0.1239 ug/l	12.06	#VALUE!	
121 Sb	0.02112 ug/l	17.60	#VALUE!	
137 Ba	0.009603 ug/l	88.60	#VALUE!	
201 Hg	0.02868 ug/l	8.31	#VALUE!	
202 Hg	0.02777 ug/l	11.11	#VALUE!	
203 Tl	0.01567 ug/l	15.27	#VALUE!	
205 Tl	0.0176 ug/l	18.15	#VALUE!	
208 Pb	0.02151 ug/l	21.57	#VALUE!	
232 Th	0.06718 ug/l	9.72	#VALUE!	
238 U	0.01274 ug/l	28.05	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	592478.13	3.34	643928.69	92.0	60 - 125	
45 Sc	269541.09	0.61	329114.28	81.9	60 - 125	
45 Sc	768984.94	2.13	872836.06	88.1	60 - 125	
74 Ge	99314.52	0.96	122381.69	81.2	60 - 125	
74 Ge	17858.46	3.04	21667.30	82.4	60 - 125	
74 Ge	190219.31	2.42	224459.19	84.7	60 - 125	
89 Y	1095509.40	2.07	1247149.90	87.8	60 - 125	
115 In	1268955.30	2.83	1396206.60	90.9	60 - 125	
159 Tb	1910844.40	2.83	2071474.10	92.2	60 - 125	
209 Bi	1254010.50	1.60	1349994.40	92.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\110_CCV.D\110_CCV.D#
Date Acquired: Mar 23 2009 11:48 pm
Operator: BB
Sample Name: CCV
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	52.86 ug/l	0.51	50.00	90 - 110	
11 B	# 3	90.51 ug/l	0.32	100.00	90 - 110	
23 Na	# 1	4905 ug/l	0.57	5000.00	90 - 110	
24 Mg	# 1	4950 ug/l	0.41	5000.00	90 - 110	
27 Al	# 1	499.8 ug/l	0.79	500.00	90 - 110	
39 K	# 2	4664 ug/l	3.26	5000.00	90 - 110	
40 Ca	# 1	4931 ug/l	0.82	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------		--- ##### - #####	
47 Ti	# 3	50.53 ug/l	2.00	50.00	90 - 110	
51 V	# 2	47.95 ug/l	1.05	50.00	90 - 110	
52 Cr	# 2	47.66 ug/l	1.32	50.00	90 - 110	
55 Mn	# 3	479.4 ug/l	0.23	500.00	90 - 110	
56 Fe	# 1	5013 ug/l	0.16	5000.00	90 - 110	
59 Co	# 3	49.12 ug/l	0.51	50.00	90 - 110	
60 Ni	# 2	48.83 ug/l	0.52	50.00	90 - 110	
63 Cu	# 2	49.06 ug/l	0.95	50.00	90 - 110	
65 Cu	# 2	48.72 ug/l	1.08	50.00	90 - 110	
65 Cu	# 3	49.95 ug/l	0.70	50.00	90 - 110	
66 Zn	# 3	49.15 ug/l	0.74	50.00	90 - 110	
68 Zn	# 3	48.91 ug/l	0.28	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------		--- ##### - #####	
75 As	# 2	49.3 ug/l	0.75	50.00	90 - 110	
78 Se	# 1	47.81 ug/l	0.30	50.00	90 - 110	
88 Sr	# 3	49.14 ug/l	1.54	50.00	90 - 110	
90 Zr	# 3	489.8 ug/l	0.76	500.00	90 - 110	
91 Zr	# 3	498.9 ug/l	1.17	500.00	90 - 110	
95 Mo	# 3	49.89 ug/l	1.03	50.00	90 - 110	
107 Ag	# 3	49.7 ug/l	1.01	50.00	90 - 110	
111 Cd	# 3	49.72 ug/l	0.34	50.00	90 - 110	
118 Sn	# 3	49.28 ug/l	0.29	50.00	90 - 110	
121 Sb	# 3	49.44 ug/l	0.08	50.00	90 - 110	
137 Ba	# 3	49.38 ug/l	1.26	50.00	90 - 110	
201 Hg	# 3	2.916 ug/l	0.39	2.50	90 - 110	Fail
202 Hg	# 3	2.912 ug/l	1.31	2.50	90 - 110	Fail
203 Tl	# 3	9.754 ug/l	0.89	10.00	90 - 110	
205 Tl	# 3	9.709 ug/l	0.35	10.00	90 - 110	
208 Pb	# 3	48.56 ug/l	0.36	50.00	90 - 110	
232 Th	# 3	48.81 ug/l	0.31		--- ##### - #####	
238 U	# 3	48.21 ug/l	0.83		--- ##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	537318.88	1.44	643928.69	83.4	60 - 125	
45 Sc	# 1	273523.13	0.69	329114.28	83.1	60 - 125	
45 Sc	# 3	757947.31	1.28	872836.06	86.8	60 - 125	
74 Ge	# 1	103224.10	0.82	122381.69	84.3	60 - 125	
74 Ge	# 2	19499.38	2.80	21667.30	90.0	60 - 125	
74 Ge	# 3	191417.56	0.98	224459.19	85.3	60 - 125	
89 Y	# 3	1091935.40	1.58	1247149.90	87.6	60 - 125	
115 In	# 3	1198728.40	1.28	1396206.60	85.9	60 - 125	
159 Tb	# 3	1819744.80	1.53	2071474.10	87.8	60 - 125	
209 Bi	# 3	1150620.60	1.64	1349994.40	85.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\111_CCB.D\111_CCB.D#
Date Acquired: Mar 23 2009 11:54 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.003836 ug/l	131.13	#VALUE!	
11 B	0.6706 ug/l	4.36	#VALUE!	
23 Na	-22.46 ug/l	1.00	#VALUE!	
24 Mg	0.2079 ug/l	17.41	#VALUE!	
27 Al	0.09823 ug/l	30.29	#VALUE!	
39 K	-4.038 ug/l	5.35	#VALUE!	
40 Ca	0.0002618 ug/l	21818.00	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.009119 ug/l	72.68	#VALUE!	
51 V	-0.0007043 ug/l	332.81	#VALUE!	
52 Cr	-0.003456 ug/l	30.38	#VALUE!	
55 Mn	0.0394 ug/l	45.69	#VALUE!	
56 Fe	0.6615 ug/l	3.01	#VALUE!	
59 Co	0.001339 ug/l	153.70	#VALUE!	
60 Ni	-0.003933 ug/l	193.36	#VALUE!	
63 Cu	-0.002011 ug/l	235.90	#VALUE!	
65 Cu	-0.005393 ug/l	140.35	#VALUE!	
65 Cu	-0.001065 ug/l	1162.40	#VALUE!	
66 Zn	-0.05193 ug/l	3.69	#VALUE!	
68 Zn	-0.05806 ug/l	8.88	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.01156 ug/l	88.50	#VALUE!	
78 Se	0.03539 ug/l	24.25	#VALUE!	
88 Sr	0.004539 ug/l	38.22	#VALUE!	
90 Zr	0.3677 ug/l	6.91	#VALUE!	
91 Zr	0.3568 ug/l	4.32	#VALUE!	
95 Mo	0.09819 ug/l	14.41	#VALUE!	
107 Ag	0.01091 ug/l	50.51	#VALUE!	
111 Cd	0.006833 ug/l	20.93	#VALUE!	
118 Sn	0.039 ug/l	35.05	#VALUE!	
121 Sb	0.0211 ug/l	34.89	#VALUE!	
137 Ba	0.004905 ug/l	72.54	#VALUE!	
201 Hg	0.03429 ug/l	2.00	#VALUE!	
202 Hg	0.03554 ug/l	6.16	#VALUE!	
203 Tl	0.01874 ug/l	25.37	#VALUE!	
205 Tl	0.01695 ug/l	23.61	#VALUE!	
208 Pb	0.005709 ug/l	67.16	#VALUE!	
232 Th	0.05254 ug/l	13.30	#VALUE!	
238 U	0.007836 ug/l	27.73	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	576680.63	0.46	643928.69	89.6	60 - 125	
45 Sc	286679.97	0.60	329114.28	87.1	60 - 125	
45 Sc	800842.63	1.69	872836.06	91.8	60 - 125	
74 Ge	108912.54	0.96	122381.69	89.0	60 - 125	
74 Ge	20647.48	3.08	21667.30	95.3	60 - 125	
74 Ge	202734.02	1.74	224459.19	90.3	60 - 125	
89 Y	1127225.40	1.36	1247149.90	90.4	60 - 125	
115 In	1268638.90	1.40	1396206.60	90.9	60 - 125	
159 Tb	1883633.30	2.08	2071474.10	90.9	60 - 125	
209 Bi	1207330.50	1.84	1349994.40	89.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

ICS-A QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\112ICSA.D\112ICSA.D#
Date Acquired: Mar 24 2009 12:01 am
Acq. Method: EPA2002.M
Operator: BB
Sample Name: ICSA
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: ICSA
Dilution Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
9 Be	0.005758	ug/l	14.55	---	
11 B	0.4221	ug/l	3.84	---	
23 Na	92910	ug/l	0.33	1.20	
24 Mg	90170	ug/l	0.22	1.20	
27 Al	89270	ug/l	0.47	1.20	
39 K	91900	ug/l	1.90	1.20	
40 Ca	95450	ug/l	0.19	1.20	
45 Sc	--------	ug/l	--------	---	
47 Ti	2148	ug/l	1.62	1.20	
51 V	0.06209	ug/l	15.98	---	
52 Cr	0.9393	ug/l	1.56	---	
55 Mn	2.058	ug/l	1.09	---	
56 Fe	95470	ug/l	0.58	1.20	
59 Co	0.1614	ug/l	8.48	---	
60 Ni	0.5991	ug/l	4.12	---	
63 Cu	0.06896	ug/l	18.50	---	
65 Cu	0.1845	ug/l	6.76	---	
65 Cu	1.638	ug/l	0.78	---	
66 Zn	2.742	ug/l	0.29	---	
68 Zn	1.38	ug/l	9.40	---	
70 Ge	--------	ug/l	--------	---	
75 As	0.124	ug/l	21.02	---	
78 Se	0.04232	ug/l	18.77	---	
88 Sr	2.528	ug/l	0.63	---	
90 Zr	3.962	ug/l	9.63	---	
91 Zr	3.998	ug/l	9.65	---	
95 Mo	2114	ug/l	0.84	1.20	
107 Ag	0.06227	ug/l	3.92	---	
111 Cd	0.303	ug/l	35.78	---	
118 Sn	0.05801	ug/l	9.61	---	
121 Sb	0.2159	ug/l	5.91	---	
137 Ba	1.432	ug/l	4.26	---	
201 Hg	0.02079	ug/l	12.86	---	
202 Hg	0.02473	ug/l	4.37	---	
203 Tl	0.02813	ug/l	10.30	---	
205 Tl	0.03023	ug/l	12.74	---	
208 Pb	0.08836	ug/l	3.29	---	
232 Th	0.0921	ug/l	12.35	---	
238 U	0.004706	ug/l	8.09	---	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	506998.47	2.26	643928.69	78.7	60 - 125	
45 Sc	263171.78	1.58	329114.28	80.0	60 - 125	
45 Sc	761913.38	1.76	872836.06	87.3	60 - 125	
74 Ge	93218.48	1.84	122381.69	76.2	60 - 125	
74 Ge	17954.51	1.30	21667.30	82.9	60 - 125	
74 Ge	183200.91	1.11	224459.19	81.6	60 - 125	
89 Y	1116710.90	0.32	1247149.90	89.5	60 - 125	
115 In	1149762.10	0.25	1396206.60	82.3	60 - 125	
159 Tb	1845471.90	0.47	2071474.10	89.1	60 - 125	
209 Bi	1021590.90	1.44	1349994.40	75.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\113ICSB.D\113ICSB.D#
Date Acquired: Mar 24 2009 12:08 am
Acq. Method: EPA2002.M
Operator: BB
Sample Name: ICSAB
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)	Flag
9 Be	0.00	ug/l	54.49	---	##### - #####	
11 B	0.28	ug/l	2.57	---	##### - #####	
23 Na	92490.00	ug/l	0.73	100000.00	80 - 120	
24 Mg	89530.00	ug/l	0.13	100000.00	80 - 120	
27 Al	87930.00	ug/l	0.65	100000.00	80 - 120	
39 K	91730.00	ug/l	0.82	100000.00	80 - 120	
40 Ca	95530.00	ug/l	0.63	100000.00	80 - 120	
45 Sc	---------	ug/l	--------		--- ##### - #####	
47 Ti	2164.00	ug/l	0.79	2000.00	80 - 120	
51 V	0.04	ug/l	19.77	---	##### - #####	
52 Cr	20.78	ug/l	0.51	20.00	80 - 120	
55 Mn	21.45	ug/l	0.49	20.00	80 - 120	
56 Fe	96820.00	ug/l	0.99	100000.00	80 - 120	
59 Co	18.65	ug/l	0.66	20.00	80 - 120	
60 Ni	20.03	ug/l	2.56	20.00	80 - 120	
63 Cu	18.70	ug/l	0.65	20.00	80 - 120	
65 Cu	18.86	ug/l	1.28	20.00	80 - 120	
65 Cu	20.02	ug/l	0.19	20.00	80 - 120	
66 Zn	20.42	ug/l	0.70	20.00	80 - 120	
68 Zn	18.14	ug/l	1.32	20.00	80 - 120	
70 Ge	--------	ug/l	--------		--- ##### - #####	
75 As	20.56	ug/l	2.20	20.00	80 - 120	
78 Se	0.05	ug/l	19.95	---	##### - #####	
88 Sr	2.57	ug/l	0.22	---	##### - #####	
90 Zr	1.94	ug/l	3.24	---	##### - #####	
91 Zr	1.95	ug/l	2.67	---	##### - #####	
95 Mo	2144.00	ug/l	0.26	2000.00	80 - 120	
107 Ag	17.08	ug/l	0.62	20.00	80 - 120	
111 Cd	18.41	ug/l	0.88	20.00	80 - 120	
118 Sn	0.05	ug/l	13.27	---	##### - #####	
121 Sb	0.21	ug/l	0.90	---	##### - #####	
137 Ba	1.55	ug/l	2.43	---	##### - #####	
201 Hg	0.02	ug/l	8.66	---	##### - #####	
202 Hg	0.02	ug/l	10.30	---	##### - #####	
203 Tl	0.03	ug/l	2.77	---	##### - #####	
205 Tl	0.03	ug/l	12.09	---	##### - #####	
208 Pb	0.08	ug/l	4.47	---	##### - #####	
232 Th	0.04	ug/l	11.25	---	##### - #####	
238 U	0.00	ug/l	38.48	---	##### - #####	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	503369.78	1.22	643928.69	78.2	60 - 125	
45 Sc	255042.64	1.99	329114.28	77.5	60 - 125	
45 Sc	751228.44	2.16	872836.06	86.1	60 - 125	
74 Ge	91024.17	1.83	122381.69	74.4	60 - 125	
74 Ge	16826.33	3.38	21667.30	77.7	60 - 125	
74 Ge	179147.73	0.59	224459.19	79.8	60 - 125	
89 Y	1104978.30	0.49	1247149.90	88.6	60 - 125	
115 In	1133260.60	1.03	1396206.60	81.2	60 - 125	
159 Tb	1824479.40	1.34	2071474.10	88.1	60 - 125	
209 Bi	992624.06	2.03	1349994.40	73.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\114SMPL.D\114SMPL.D#
Date Acquired:	Mar 24 2009 12:15 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RINSE
Misc Info:	
Vial Number:	1207
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnoxm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0006023	-0.0006023	ug/l	113.20	#VALUE!	
11 B	# 3	0.2155	0.2155	ug/l	18.26	#VALUE!	
23 Na	# 1	-21.48	-21.48	ug/l	12.41	#VALUE!	
24 Mg	# 1	5.952	5.952	ug/l	46.71	#VALUE!	
27 Al	# 1	5.912	5.912	ug/l	48.11	#VALUE!	
39 K	# 2	3.154	3.154	ug/l	286.53	#VALUE!	
40 Ca	# 1	6.177	6.177	ug/l	42.43	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.184	0.184	ug/l	1.83	#VALUE!	
51 V	# 2	0.0394	0.0394	ug/l	8.90	#VALUE!	
52 Cr	# 2	0.0372	0.0372	ug/l	12.71	#VALUE!	
55 Mn	# 3	0.03885	0.03885	ug/l	5.08	#VALUE!	
56 Fe	# 1	11.36	11.36	ug/l	25.65	#VALUE!	
59 Co	# 3	0.03203	0.03203	ug/l	4.58	#VALUE!	
60 Ni	# 2	0.07024	0.07024	ug/l	18.86	#VALUE!	
63 Cu	# 2	0.05895	0.05895	ug/l	31.48	#VALUE!	
65 Cu	# 2	0.06433	0.06433	ug/l	25.31	#VALUE!	
65 Cu	# 3	0.06491	0.06491	ug/l	5.49	#VALUE!	
66 Zn	# 3	0.2108	0.2108	ug/l	15.68	#VALUE!	
68 Zn	# 3	0.2019	0.2019	ug/l	3.25	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.01014	0.01014	ug/l	142.21	#VALUE!	
78 Se	# 1	0.00896	0.00896	ug/l	53.28	#VALUE!	
88 Sr	# 3	0.03299	0.03299	ug/l	8.69	#VALUE!	
90 Zr	# 3	0.02073	0.02073	ug/l	7.10	#VALUE!	
91 Zr	# 3	0.0142	0.0142	ug/l	87.68	#VALUE!	
95 Mo	# 3	1.423	1.423	ug/l	7.85	#VALUE!	
107 Ag	# 3	0.003588	0.003588	ug/l	24.63	#VALUE!	
111 Cd	# 3	0.001625	0.001625	ug/l	180.80	#VALUE!	
118 Sn	# 3	0.07207	0.07207	ug/l	9.47	#VALUE!	
121 Sb	# 3	0.006045	0.006045	ug/l	30.09	#VALUE!	
137 Ba	# 3	0.03987	0.03987	ug/l	11.79	#VALUE!	
201 Hg	# 3	0.007234	0.007234	ug/l	34.70	#VALUE!	
202 Hg	# 3	0.009474	0.009474	ug/l	26.01	#VALUE!	
203 Tl	# 3	-0.002168	-0.002168	ug/l	38.96	#VALUE!	
205 Tl	# 3	-0.001438	-0.001438	ug/l	20.73	#VALUE!	
208 Pb	# 3	0.03293	0.03293	ug/l	9.74	#VALUE!	
232 Th	# 3	0.005952	0.005952	ug/l	11.48	#VALUE!	
238 U	# 3	-5.69E-006	-5.69E-006	ug/l	4332.20	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	532740.13	1.70	643928.69	82.7	60 - 125	
45 Sc	# 1	259401.41	0.80	329114.28	78.8	60 - 125	
45 Sc	# 3	757945.38	2.22	872836.06	86.8	60 - 125	
74 Ge	# 1	100047.70	0.79	122381.69	81.8	60 - 125	
74 Ge	# 2	18046.13	4.29	21667.30	83.3	60 - 125	
74 Ge	# 3	191010.30	0.85	224459.19	85.1	60 - 125	
89 Y	# 3	1075198.60	1.18	1247149.90	86.2	60 - 125	
115 In	# 3	1210328.60	1.56	1396206.60	86.7	60 - 125	
159 Tb	# 3	1800200.40	1.58	2071474.10	86.9	60 - 125	
209 Bi	# 3	1152203.00	1.20	1349994.40	85.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\115SMPL.D\115SMPL.D#
Date Acquired: Mar 24 2009 12:21 am
Acq. Method: EPA2002.M
Operator: BB
Sample Name: RINSE
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0006132	-0.0006132	ug/l	108.12	#VALUE!	
11 B	# 3	0.1862	0.1862	ug/l	27.57	#VALUE!	
23 Na	# 1	-21.49	-21.49	ug/l	3.07	#VALUE!	
24 Mg	# 1	6.839	6.839	ug/l	3.42	#VALUE!	
27 Al	# 1	6.715	6.715	ug/l	4.97	#VALUE!	
39 K	# 2	-1.475	-1.475	ug/l	86.78	#VALUE!	
40 Ca	# 1	7.072	7.072	ug/l	2.37	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.162	0.162	ug/l	15.54	#VALUE!	
51 V	# 2	0.03363	0.03363	ug/l	24.78	#VALUE!	
52 Cr	# 2	0.03549	0.03549	ug/l	15.99	#VALUE!	
55 Mn	# 3	0.0422	0.0422	ug/l	6.04	#VALUE!	
56 Fe	# 1	8.251	8.251	ug/l	3.12	#VALUE!	
59 Co	# 3	0.02639	0.02639	ug/l	3.91	#VALUE!	
60 Ni	# 2	0.03608	0.03608	ug/l	49.97	#VALUE!	
63 Cu	# 2	0.07171	0.07171	ug/l	25.95	#VALUE!	
65 Cu	# 2	0.06177	0.06177	ug/l	11.60	#VALUE!	
65 Cu	# 3	0.05816	0.05816	ug/l	6.03	#VALUE!	
66 Zn	# 3	0.1915	0.1915	ug/l	13.66	#VALUE!	
68 Zn	# 3	0.1875	0.1875	ug/l	22.56	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.004133	0.004133	ug/l	84.98	#VALUE!	
78 Se	# 1	0.003386	0.003386	ug/l	129.95	#VALUE!	
88 Sr	# 3	0.03749	0.03749	ug/l	4.84	#VALUE!	
90 Zr	# 3	0.02288	0.02288	ug/l	6.01	#VALUE!	
91 Zr	# 3	0.01327	0.01327	ug/l	44.62	#VALUE!	
95 Mo	# 3	0.644	0.644	ug/l	8.35	#VALUE!	
107 Ag	# 3	0.004587	0.004587	ug/l	23.57	#VALUE!	
111 Cd	# 3	0.001855	0.001855	ug/l	162.86	#VALUE!	
118 Sn	# 3	0.07235	0.07235	ug/l	6.83	#VALUE!	
121 Sb	# 3	0.003477	0.003477	ug/l	80.36	#VALUE!	
137 Ba	# 3	0.0425	0.0425	ug/l	16.62	#VALUE!	
201 Hg	# 3	0.005669	0.005669	ug/l	35.79	#VALUE!	
202 Hg	# 3	0.007304	0.007304	ug/l	10.65	#VALUE!	
203 Tl	# 3	-0.002566	-0.002566	ug/l	19.05	#VALUE!	
205 Tl	# 3	-0.002307	-0.002307	ug/l	25.21	#VALUE!	
208 Pb	# 3	0.03232	0.03232	ug/l	2.82	#VALUE!	
232 Th	# 3	0.006436	0.006436	ug/l	1.17	#VALUE!	
238 U	# 3	-0.0001393	-0.0001393	ug/l	238.69	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	553754.50	3.31	643928.69	86.0	60 - 125	
45 Sc	# 1	263853.59	2.72	329114.28	80.2	60 - 125	
45 Sc	# 3	775046.75	1.07	872836.06	88.8	60 - 125	
74 Ge	# 1	99988.84	1.75	122381.69	81.7	60 - 125	
74 Ge	# 2	18494.55	3.08	21667.30	85.4	60 - 125	
74 Ge	# 3	193649.80	1.85	224459.19	86.3	60 - 125	
89 Y	# 3	1089737.80	2.02	1247149.90	87.4	60 - 125	
115 In	# 3	1223998.10	2.23	1396206.60	87.7	60 - 125	
159 Tb	# 3	1827646.00	1.86	2071474.10	88.2	60 - 125	
209 Bi	# 3	1174402.60	1.21	1349994.40	87.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\116SMPL.D\116SMPL.D#
Date Acquired:	Mar 24 2009 12:28 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RINSE
Misc Info:	
Vial Number:	1207
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.0001456	0.0001456	ug/l	794.64	#VALUE!	
11 B	# 3	0.1696	0.1696	ug/l	6.43	#VALUE!	
23 Na	# 1	-25.47	-25.47	ug/l	0.44	#VALUE!	
24 Mg	# 1	3.407	3.407	ug/l	2.02	#VALUE!	
27 Al	# 1	3.429	3.429	ug/l	2.17	#VALUE!	
39 K	# 2	-2.185	-2.185	ug/l	53.41	#VALUE!	
40 Ca	# 1	3.642	3.642	ug/l	2.17	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.1474	0.1474	ug/l	7.96	#VALUE!	
51 V	# 2	0.04038	0.04038	ug/l	21.98	#VALUE!	
52 Cr	# 2	0.03715	0.03715	ug/l	12.65	#VALUE!	
55 Mn	# 3	0.03912	0.03912	ug/l	4.21	#VALUE!	
56 Fe	# 1	4.285	4.285	ug/l	0.28	#VALUE!	
59 Co	# 3	0.02925	0.02925	ug/l	3.12	#VALUE!	
60 Ni	# 2	0.04395	0.04395	ug/l	21.92	#VALUE!	
63 Cu	# 2	0.05629	0.05629	ug/l	28.28	#VALUE!	
65 Cu	# 2	0.05008	0.05008	ug/l	25.52	#VALUE!	
65 Cu	# 3	0.06056	0.06056	ug/l	15.78	#VALUE!	
66 Zn	# 3	0.1771	0.1771	ug/l	4.05	#VALUE!	
68 Zn	# 3	0.1891	0.1891	ug/l	11.73	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	-0.001608	-0.001608	ug/l	448.76	#VALUE!	
78 Se	# 1	0.002682	0.002682	ug/l	77.55	#VALUE!	
88 Sr	# 3	0.03879	0.03879	ug/l	7.65	#VALUE!	
90 Zr	# 3	0.02105	0.02105	ug/l	23.34	#VALUE!	
91 Zr	# 3	0.01947	0.01947	ug/l	46.49	#VALUE!	
95 Mo	# 3	0.3972	0.3972	ug/l	2.40	#VALUE!	
107 Ag	# 3	0.002483	0.002483	ug/l	35.81	#VALUE!	
111 Cd	# 3	0.003397	0.003397	ug/l	47.63	#VALUE!	
118 Sn	# 3	0.07122	0.07122	ug/l	6.03	#VALUE!	
121 Sb	# 3	0.003461	0.003461	ug/l	57.61	#VALUE!	
137 Ba	# 3	0.04281	0.04281	ug/l	12.58	#VALUE!	
201 Hg	# 3	0.006371	0.006371	ug/l	20.58	#VALUE!	
202 Hg	# 3	0.004862	0.004862	ug/l	19.46	#VALUE!	
203 Tl	# 3	-0.002246	-0.002246	ug/l	32.56	#VALUE!	
205 Tl	# 3	-0.003219	-0.003219	ug/l	5.31	#VALUE!	
208 Pb	# 3	0.03378	0.03378	ug/l	9.06	#VALUE!	
232 Th	# 3	0.005285	0.005285	ug/l	9.11	#VALUE!	
238 U	# 3	-9.194E-005	-9.194E-005	ug/l	226.13	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	565590.56	2.00	643928.69	87.8	60 - 125	
45 Sc	# 1	269347.69	0.59	329114.28	81.8	60 - 125	
45 Sc	# 3	779042.06	0.96	872836.06	89.3	60 - 125	
74 Ge	# 1	102023.37	0.46	122381.69	83.4	60 - 125	
74 Ge	# 2	18643.99	2.40	21667.30	86.0	60 - 125	
74 Ge	# 3	196152.61	1.35	224459.19	87.4	60 - 125	
89 Y	# 3	1112650.30	2.16	1247149.90	89.2	60 - 125	
115 In	# 3	1248062.40	1.68	1396206.60	89.4	60 - 125	
159 Tb	# 3	1859913.30	1.66	2071474.10	89.8	60 - 125	
209 Bi	# 3	1204361.50	1.48	1349994.40	89.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\117_CCV.D\117_CCV.D#
Date Acquired: Mar 24 2009 12:35 am
Operator: BB
Sample Name: CCV
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	51.14 ug/l	1.07	50.00	90 - 110	
11 B	# 3	89.06 ug/l	2.21	100.00	90 - 110	Fail
23 Na	# 1	4875 ug/l	0.92	5000.00	90 - 110	
24 Mg	# 1	4921 ug/l	0.63	5000.00	90 - 110	
27 Al	# 1	496 ug/l	0.76	500.00	90 - 110	
39 K	# 2	4598 ug/l	2.08	5000.00	90 - 110	
40 Ca	# 1	4910 ug/l	0.16	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------		--- ##### - #####	
47 Ti	# 3	48.94 ug/l	1.11	50.00	90 - 110	
51 V	# 2	47.94 ug/l	1.21	50.00	90 - 110	
52 Cr	# 2	47.43 ug/l	2.24	50.00	90 - 110	
55 Mn	# 3	482.5 ug/l	1.18	500.00	90 - 110	
56 Fe	# 1	5005 ug/l	0.14	5000.00	90 - 110	
59 Co	# 3	48.66 ug/l	1.54	50.00	90 - 110	
60 Ni	# 2	48.26 ug/l	2.47	50.00	90 - 110	
63 Cu	# 2	48.67 ug/l	2.69	50.00	90 - 110	
65 Cu	# 2	48.4 ug/l	2.95	50.00	90 - 110	
65 Cu	# 3	49.39 ug/l	1.06	50.00	90 - 110	
66 Zn	# 3	49.36 ug/l	1.33	50.00	90 - 110	
68 Zn	# 3	48.45 ug/l	1.05	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------		--- ##### - #####	
75 As	# 2	49.27 ug/l	1.31	50.00	90 - 110	
78 Se	# 1	48.37 ug/l	0.69	50.00	90 - 110	
88 Sr	# 3	49.83 ug/l	1.64	50.00	90 - 110	
90 Zr	# 3	495.4 ug/l	1.34	500.00	90 - 110	
91 Zr	# 3	501.5 ug/l	1.31	500.00	90 - 110	
95 Mo	# 3	49.74 ug/l	1.24	50.00	90 - 110	
107 Ag	# 3	49.39 ug/l	0.84	50.00	90 - 110	
111 Cd	# 3	49.56 ug/l	1.01	50.00	90 - 110	
118 Sn	# 3	49.65 ug/l	0.64	50.00	90 - 110	
121 Sb	# 3	49.56 ug/l	0.77	50.00	90 - 110	
137 Ba	# 3	49.63 ug/l	0.75	50.00	90 - 110	
201 Hg	# 3	2.88 ug/l	1.20	2.50	90 - 110	Fail
202 Hg	# 3	2.868 ug/l	0.94	2.50	90 - 110	Fail
203 Tl	# 3	9.684 ug/l	0.22	10.00	90 - 110	
205 Tl	# 3	9.726 ug/l	0.48	10.00	90 - 110	
208 Pb	# 3	48.21 ug/l	0.20	50.00	90 - 110	
232 Th	# 3	48.93 ug/l	1.20		--- ##### - #####	
238 U	# 3	48.87 ug/l	0.89		--- ##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	539480.50	2.34	643928.69	83.8	60 - 125	
45 Sc	# 1	265296.00	1.34	329114.28	80.6	60 - 125	
45 Sc	# 3	765382.56	0.77	872836.06	87.7	60 - 125	
74 Ge	# 1	99046.24	0.94	122381.69	80.9	60 - 125	
74 Ge	# 2	18377.76	4.50	21667.30	84.8	60 - 125	
74 Ge	# 3	188685.80	1.10	224459.19	84.1	60 - 125	
89 Y	# 3	1079997.30	1.14	1247149.90	86.6	60 - 125	
115 In	# 3	1193619.50	2.03	1396206.60	85.5	60 - 125	
159 Tb	# 3	1836065.80	1.48	2071474.10	88.6	60 - 125	
209 Bi	# 3	1158697.90	0.78	1349994.40	85.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\118_CCB.D\118_CCB.D#
Date Acquired: Mar 24 2009 12:42 am
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.005633 ug/l	72.75	#VALUE!	
11 B	0.6365 ug/l	12.22	#VALUE!	
23 Na	-28.47 ug/l	0.83	#VALUE!	
24 Mg	0.9334 ug/l	13.79	#VALUE!	
27 Al	0.1882 ug/l	11.08	#VALUE!	
39 K	-4.831 ug/l	7.96	#VALUE!	
40 Ca	0.5949 ug/l	9.31	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.0223 ug/l	64.89	#VALUE!	
51 V	-0.000839 ug/l	1228.80	#VALUE!	
52 Cr	-0.00326 ug/l	61.32	#VALUE!	
55 Mn	0.05805 ug/l	22.60	#VALUE!	
56 Fe	1.399 ug/l	3.33	#VALUE!	
59 Co	0.004504 ug/l	51.55	#VALUE!	
60 Ni	-0.003203 ug/l	448.33	#VALUE!	
63 Cu	0.001634 ug/l	707.47	#VALUE!	
65 Cu	0.01166 ug/l	41.07	#VALUE!	
65 Cu	0.01669 ug/l	67.29	#VALUE!	
66 Zn	-0.04473 ug/l	20.71	#VALUE!	
68 Zn	-0.05281 ug/l	31.83	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.02303 ug/l	18.19	#VALUE!	
78 Se	0.03977 ug/l	14.61	#VALUE!	
88 Sr	0.004665 ug/l	17.81	#VALUE!	
90 Zr	0.3926 ug/l	3.18	#VALUE!	
91 Zr	0.4244 ug/l	4.79	#VALUE!	
95 Mo	0.1813 ug/l	2.25	#VALUE!	
107 Ag	0.01061 ug/l	16.07	#VALUE!	
111 Cd	0.007577 ug/l	13.06	#VALUE!	
118 Sn	0.04629 ug/l	16.42	#VALUE!	
121 Sb	0.01665 ug/l	29.40	#VALUE!	
137 Ba	0.004517 ug/l	105.40	#VALUE!	
201 Hg	0.02364 ug/l	4.40	#VALUE!	
202 Hg	0.03079 ug/l	12.65	#VALUE!	
203 Tl	0.01988 ug/l	7.13	#VALUE!	
205 Tl	0.01627 ug/l	13.81	#VALUE!	
208 Pb	0.005434 ug/l	49.43	#VALUE!	
232 Th	0.04991 ug/l	6.98	#VALUE!	
238 U	0.01015 ug/l	21.43	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	549747.75	1.88	643928.69	85.4	60 - 125	
45 Sc	261860.66	0.62	329114.28	79.6	60 - 125	
45 Sc	752431.06	1.52	872836.06	86.2	60 - 125	
74 Ge	99507.95	0.53	122381.69	81.3	60 - 125	
74 Ge	18369.56	2.83	21667.30	84.8	60 - 125	
74 Ge	190407.69	1.71	224459.19	84.8	60 - 125	
89 Y	1078018.00	1.34	1247149.90	86.4	60 - 125	
115 In	1210784.60	1.90	1396206.60	86.7	60 - 125	
159 Tb	1818184.80	1.92	2071474.10	87.8	60 - 125	
209 Bi	1184245.30	2.20	1349994.40	87.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\161_CCV.D\161_CCV.D#
Date Acquired: Mar 24 2009 03:45 pm
Operator: BB
Sample Name: CCV
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	51.3 ug/l	0.23	50.00	90 - 110	
11 B	# 3	89.57 ug/l	1.44	100.00	90 - 110	Fail
23 Na	# 1	5014 ug/l	0.91	5000.00	90 - 110	
24 Mg	# 1	5068 ug/l	0.67	5000.00	90 - 110	
27 Al	# 1	512.6 ug/l	1.36	500.00	90 - 110	
39 K	# 2	4855 ug/l	1.67	5000.00	90 - 110	
40 Ca	# 1	5020 ug/l	0.64	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	---------	---	##### - #####	
47 Ti	# 3	49.89 ug/l	1.19	50.00	90 - 110	
51 V	# 2	48.34 ug/l	1.54	50.00	90 - 110	
52 Cr	# 2	47.93 ug/l	2.21	50.00	90 - 110	
55 Mn	# 3	472.4 ug/l	1.16	500.00	90 - 110	
56 Fe	# 1	4833 ug/l	0.61	5000.00	90 - 110	
59 Co	# 3	48.05 ug/l	0.85	50.00	90 - 110	
60 Ni	# 2	48.03 ug/l	2.48	50.00	90 - 110	
63 Cu	# 2	48.34 ug/l	3.55	50.00	90 - 110	
65 Cu	# 2	48.11 ug/l	3.40	50.00	90 - 110	
65 Cu	# 3	49.6 ug/l	0.79	50.00	90 - 110	
66 Zn	# 3	48.51 ug/l	0.48	50.00	90 - 110	
68 Zn	# 3	48.31 ug/l	0.55	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	---------	---	##### - #####	
75 As	# 2	49.43 ug/l	1.89	50.00	90 - 110	
78 Se	# 1	46.43 ug/l	0.38	50.00	90 - 110	
88 Sr	# 3	49.88 ug/l	0.73	50.00	90 - 110	
90 Zr	# 3	500.2 ug/l	0.62	500.00	90 - 110	
91 Zr	# 3	506 ug/l	0.43	500.00	90 - 110	
95 Mo	# 3	50.4 ug/l	0.78	50.00	90 - 110	
107 Ag	# 3	49.82 ug/l	0.41	50.00	90 - 110	
111 Cd	# 3	49.81 ug/l	0.32	50.00	90 - 110	
118 Sn	# 3	49.89 ug/l	0.87	50.00	90 - 110	
121 Sb	# 3	49.63 ug/l	1.02	50.00	90 - 110	
137 Ba	# 3	49.63 ug/l	1.20	50.00	90 - 110	
201 Hg	# 3	2.523 ug/l	1.65	2.50	90 - 110	
202 Hg	# 3	2.502 ug/l	0.51	2.50	90 - 110	
203 Tl	# 3	9.593 ug/l	0.50	10.00	90 - 110	
205 Tl	# 3	9.596 ug/l	1.11	10.00	90 - 110	
208 Pb	# 3	47.76 ug/l	0.12	50.00	90 - 110	
232 Th	# 3	48.4 ug/l	0.57	---	##### - #####	
238 U	# 3	48.2 ug/l	0.46	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	547072.81	0.59	643928.69	85.0	60 - 125	
45 Sc	# 1	301713.53	0.24	329114.28	91.7	60 - 125	
45 Sc	# 3	782944.00	1.82	872836.06	89.7	60 - 125	
74 Ge	# 1	110967.91	0.59	122381.69	90.7	60 - 125	
74 Ge	# 2	20289.52	6.33	21667.30	93.6	60 - 125	
74 Ge	# 3	197438.84	0.45	224459.19	88.0	60 - 125	
89 Y	# 3	1085525.60	1.11	1247149.90	87.0	60 - 125	
115 In	# 3	1194574.50	0.31	1396206.60	85.6	60 - 125	
159 Tb	# 3	1819138.90	1.02	2071474.10	87.8	60 - 125	
209 Bi	# 3	1140775.40	1.46	1349994.40	84.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\162_CCB.D\162_CCB.D#
Date Acquired: Mar 24 2009 03:51 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.006242 ug/l	71.16	#VALUE!	
11 B	0.775 ug/l	6.72	#VALUE!	
23 Na	-30.71 ug/l	0.27	#VALUE!	
24 Mg	0.6539 ug/l	7.02	#VALUE!	
27 Al	0.06022 ug/l	23.36	#VALUE!	
39 K	-5.434 ug/l	15.55	#VALUE!	
40 Ca	-0.2268 ug/l	8.81	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.009362 ug/l	140.89	#VALUE!	
51 V	-0.005405 ug/l	97.63	#VALUE!	
52 Cr	-0.0005481 ug/l	1374.00	#VALUE!	
55 Mn	0.05472 ug/l	9.92	#VALUE!	
56 Fe	1.092 ug/l	3.61	#VALUE!	
59 Co	0.003683 ug/l	31.09	#VALUE!	
60 Ni	-0.04053 ug/l	26.50	#VALUE!	
63 Cu	-0.04831 ug/l	14.76	#VALUE!	
65 Cu	-0.03986 ug/l	26.94	#VALUE!	
65 Cu	-0.0593 ug/l	15.98	#VALUE!	
66 Zn	-0.158 ug/l	8.82	#VALUE!	
68 Zn	-0.1283 ug/l	9.31	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.02124 ug/l	42.91	#VALUE!	
78 Se	0.05171 ug/l	8.77	#VALUE!	
88 Sr	0.002797 ug/l	25.51	#VALUE!	
90 Zr	0.4206 ug/l	5.96	#VALUE!	
91 Zr	0.451 ug/l	12.20	#VALUE!	
95 Mo	0.1063 ug/l	23.92	#VALUE!	
107 Ag	0.0103 ug/l	15.59	#VALUE!	
111 Cd	0.007825 ug/l	39.08	#VALUE!	
118 Sn	0.04527 ug/l	17.56	#VALUE!	
121 Sb	0.02141 ug/l	17.35	#VALUE!	
137 Ba	0.002404 ug/l	169.93	#VALUE!	
201 Hg	0.03144 ug/l	8.34	#VALUE!	
202 Hg	0.03067 ug/l	11.37	#VALUE!	
203 Tl	0.03037 ug/l	22.54	#VALUE!	
205 Tl	0.02769 ug/l	18.36	#VALUE!	
208 Pb	0.003009 ug/l	22.94	#VALUE!	
232 Th	0.05188 ug/l	12.11	#VALUE!	
238 U	0.01082 ug/l	11.89	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	535805.69	2.13	643928.69	83.2	60 - 125	
45 Sc	288919.56	0.28	329114.28	87.8	60 - 125	
45 Sc	747859.13	0.78	872836.06	85.7	60 - 125	
74 Ge	109008.53	0.11	122381.69	89.1	60 - 125	
74 Ge	20164.87	2.49	21667.30	93.1	60 - 125	
74 Ge	191562.52	1.13	224459.19	85.3	60 - 125	
89 Y	1055844.50	1.18	1247149.90	84.7	60 - 125	
115 In	1180465.90	1.55	1396206.60	84.5	60 - 125	
159 Tb	1759762.00	0.38	2071474.10	85.0	60 - 125	
209 Bi	1137789.80	1.83	1349994.40	84.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Pass

ICS-A QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\163ICSA.D\163ICSA.D#
Date Acquired: Mar 24 2009 03:58 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: ICSA
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: ICSA
Dilution Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
9 Be	0.01069	ug/l	70.35	---	
11 B	0.3901	ug/l	11.10	---	
23 Na	95630	ug/l	0.41	1.20	
24 Mg	93450	ug/l	0.78	1.20	
27 Al	92650	ug/l	0.39	1.20	
39 K	96080	ug/l	0.52	1.20	
40 Ca	98830	ug/l	0.71	1.20	
45 Sc	---------	ug/l	---------	---	
47 Ti	2156	ug/l	0.50	1.20	
51 V	0.05348	ug/l	0.78	---	
52 Cr	0.9733	ug/l	3.31	---	
55 Mn	2.137	ug/l	0.79	---	
56 Fe	95680	ug/l	0.40	1.20	
59 Co	0.146	ug/l	4.80	---	
60 Ni	0.5952	ug/l	4.07	---	
63 Cu	0.0251	ug/l	14.45	---	
65 Cu	0.1581	ug/l	16.91	---	
65 Cu	1.353	ug/l	3.76	---	
66 Zn	2.535	ug/l	1.24	---	
68 Zn	1.336	ug/l	7.75	---	
70 Ge	---------	ug/l	---------	---	
75 As	0.1541	ug/l	5.19	---	
78 Se	0.05654	ug/l	17.83	---	
88 Sr	2.578	ug/l	1.54	---	
90 Zr	4.435	ug/l	9.54	---	
91 Zr	4.365	ug/l	8.94	---	
95 Mo	2168	ug/l	1.59	1.20	
107 Ag	0.06317	ug/l	2.89	---	
111 Cd	-0.3011	ug/l	11.60	---	
118 Sn	0.06966	ug/l	8.92	---	
121 Sb	0.2228	ug/l	4.63	---	
137 Ba	1.486	ug/l	1.46	---	
201 Hg	0.02592	ug/l	9.17	---	
202 Hg	0.02451	ug/l	7.44	---	
203 Tl	0.03716	ug/l	0.91	---	
205 Tl	0.03913	ug/l	2.82	---	
208 Pb	0.08788	ug/l	0.92	---	
232 Th	0.08373	ug/l	13.42	---	
238 U	0.009884	ug/l	6.01	---	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	511543.22	0.35	643928.69	79.4	60 - 125	
45 Sc	275436.25	1.68	329114.28	83.7	60 - 125	
45 Sc	760759.25	0.45	872836.06	87.2	60 - 125	
74 Ge	96807.35	1.79	122381.69	79.1	60 - 125	
74 Ge	18129.99	2.89	21667.30	83.7	60 - 125	
74 Ge	180540.50	0.35	224459.19	80.4	60 - 125	
89 Y	1097548.00	2.04	1247149.90	88.0	60 - 125	
115 In	1119924.90	0.96	1396206.60	80.2	60 - 125	
159 Tb	1772126.90	0.52	2071474.10	85.5	60 - 125	
209 Bi	984342.56	1.17	1349994.40	72.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\164ICSB.D\164ICSB.D#
Date Acquired: Mar 24 2009 04:05 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: ICSAB
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)	Flag
9 Be	0.01	ug/l	65.51	---	##### - #####	
11 B	0.23	ug/l	15.26	---	##### - #####	
23 Na	95060.00	ug/l	1.19	100000.00	80 - 120	
24 Mg	91880.00	ug/l	1.18	100000.00	80 - 120	
27 Al	90790.00	ug/l	0.88	100000.00	80 - 120	
39 K	95450.00	ug/l	0.75	100000.00	80 - 120	
40 Ca	98040.00	ug/l	0.99	100000.00	80 - 120	
45 Sc	---------	ug/l	---------	---	##### - #####	
47 Ti	2193.00	ug/l	0.59	2000.00	80 - 120	
51 V	0.03	ug/l	13.60	---	##### - #####	
52 Cr	21.34	ug/l	1.46	20.00	80 - 120	
55 Mn	21.96	ug/l	0.50	20.00	80 - 120	
56 Fe	98210.00	ug/l	0.85	100000.00	80 - 120	
59 Co	19.16	ug/l	0.50	20.00	80 - 120	
60 Ni	20.01	ug/l	1.55	20.00	80 - 120	
63 Cu	18.87	ug/l	1.84	20.00	80 - 120	
65 Cu	18.95	ug/l	1.20	20.00	80 - 120	
65 Cu	20.38	ug/l	0.77	20.00	80 - 120	
66 Zn	20.48	ug/l	1.25	20.00	80 - 120	
68 Zn	18.13	ug/l	0.30	20.00	80 - 120	
70 Ge	---------	ug/l	---------	---	##### - #####	
75 As	20.61	ug/l	0.56	20.00	80 - 120	
78 Se	0.04	ug/l	28.70	---	##### - #####	
88 Sr	2.58	ug/l	0.26	---	##### - #####	
90 Zr	2.17	ug/l	4.40	---	##### - #####	
91 Zr	2.18	ug/l	5.78	---	##### - #####	
95 Mo	2203.00	ug/l	0.46	2000.00	80 - 120	
107 Ag	17.73	ug/l	1.55	20.00	80 - 120	
111 Cd	18.23	ug/l	0.96	20.00	80 - 120	
118 Sn	0.05	ug/l	11.23	---	##### - #####	
121 Sb	0.21	ug/l	6.40	---	##### - #####	
137 Ba	1.51	ug/l	2.30	---	##### - #####	
201 Hg	0.02	ug/l	22.77	---	##### - #####	
202 Hg	0.02	ug/l	10.24	---	##### - #####	
203 Tl	0.03	ug/l	0.63	---	##### - #####	
205 Tl	0.03	ug/l	9.32	---	##### - #####	
208 Pb	0.09	ug/l	4.19	---	##### - #####	
232 Th	0.03	ug/l	3.59	---	##### - #####	
238 U	0.00	ug/l	6.72	---	##### - #####	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	516207.91	0.79	643928.69	80.2	60 - 125	
45 Sc	260190.72	1.67	329114.28	79.1	60 - 125	
45 Sc	739385.44	0.30	872836.06	84.7	60 - 125	
74 Ge	92109.27	1.85	122381.69	75.3	60 - 125	
74 Ge	16454.36	2.66	21667.30	75.9	60 - 125	
74 Ge	175067.45	0.69	224459.19	78.0	60 - 125	
89 Y	1070017.30	1.27	1247149.90	85.8	60 - 125	
115 In	1086064.50	1.35	1396206.60	77.8	60 - 125	
159 Tb	1750766.00	0.71	2071474.10	84.5	60 - 125	
209 Bi	962289.75	1.10	1349994.40	71.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\165SMPL.D\165SMPL.D#
Date Acquired: Mar 24 2009 04:12 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: RINSE
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0001707	-0.0001707	ug/l	418.75	#VALUE!	
11 B	# 3	0.195	0.195	ug/l	16.26	#VALUE!	
23 Na	# 1	-8.418	-8.418	ug/l	13.88	#VALUE!	
24 Mg	# 1	22.11	22.11	ug/l	6.42	#VALUE!	
27 Al	# 1	21.39	21.39	ug/l	4.40	#VALUE!	
39 K	# 2	9.784	9.784	ug/l	2.18	#VALUE!	
40 Ca	# 1	20.9	20.9	ug/l	4.05	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.5125	0.5125	ug/l	11.52	#VALUE!	
51 V	# 2	0.03591	0.03591	ug/l	23.94	#VALUE!	
52 Cr	# 2	0.04185	0.04185	ug/l	15.70	#VALUE!	
55 Mn	# 3	0.04595	0.04595	ug/l	5.99	#VALUE!	
56 Fe	# 1	28	28	ug/l	4.60	#VALUE!	
59 Co	# 3	0.03328	0.03328	ug/l	10.05	#VALUE!	
60 Ni	# 2	0.02243	0.02243	ug/l	60.10	#VALUE!	
63 Cu	# 2	0.01909	0.01909	ug/l	19.07	#VALUE!	
65 Cu	# 2	0.02547	0.02547	ug/l	34.04	#VALUE!	
65 Cu	# 3	-0.0003196	-0.0003196	ug/l	4677.70	#VALUE!	
66 Zn	# 3	0.1286	0.1286	ug/l	12.83	#VALUE!	
68 Zn	# 3	0.05161	0.05161	ug/l	101.01	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	-0.006102	-0.006102	ug/l	44.43	#VALUE!	
78 Se	# 1	0.00146	0.00146	ug/l	209.45	#VALUE!	
88 Sr	# 3	0.0355	0.0355	ug/l	9.77	#VALUE!	
90 Zr	# 3	0.02522	0.02522	ug/l	3.95	#VALUE!	
91 Zr	# 3	0.01649	0.01649	ug/l	55.09	#VALUE!	
95 Mo	# 3	1.821	1.821	ug/l	7.77	#VALUE!	
107 Ag	# 3	0.008186	0.008186	ug/l	12.30	#VALUE!	
111 Cd	# 3	0.00564	0.00564	ug/l	40.50	#VALUE!	
118 Sn	# 3	0.06689	0.06689	ug/l	11.24	#VALUE!	
121 Sb	# 3	0.00227	0.00227	ug/l	122.07	#VALUE!	
137 Ba	# 3	0.04051	0.04051	ug/l	14.64	#VALUE!	
201 Hg	# 3	0.008985	0.008985	ug/l	17.49	#VALUE!	
202 Hg	# 3	0.007886	0.007886	ug/l	15.98	#VALUE!	
203 Tl	# 3	0.000587	0.000587	ug/l	183.30	#VALUE!	
205 Tl	# 3	0.00129	0.00129	ug/l	87.98	#VALUE!	
208 Pb	# 3	0.03279	0.03279	ug/l	1.71	#VALUE!	
232 Th	# 3	0.005569	0.005569	ug/l	13.89	#VALUE!	
238 U	# 3	0.0005252	0.0005252	ug/l	56.30	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	516975.19	1.28	643928.69	80.3	60 - 125	
45 Sc	# 1	263733.34	1.89	329114.28	80.1	60 - 125	
45 Sc	# 3	719560.81	0.86	872836.06	82.4	60 - 125	
74 Ge	# 1	100375.49	1.44	122381.69	82.0	60 - 125	
74 Ge	# 2	17170.49	2.37	21667.30	79.2	60 - 125	
74 Ge	# 3	181578.00	0.29	224459.19	80.9	60 - 125	
89 Y	# 3	1015474.80	1.43	1247149.90	81.4	60 - 125	
115 In	# 3	1130006.60	0.51	1396206.60	80.9	60 - 125	
159 Tb	# 3	1689620.80	0.81	2071474.10	81.6	60 - 125	
209 Bi	# 3	1095205.80	0.56	1349994.40	81.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\166SMPL.D\166SMPL.D#
Date Acquired:	Mar 24 2009 04:19 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RINSE
Misc Info:	
Vial Number:	1207
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0005893	-0.0005893	ug/l	119.51	#VALUE!	
11 B	# 3	0.03411	0.03411	ug/l	29.67	#VALUE!	
23 Na	# 1	-21.99	-21.99	ug/l	1.58	#VALUE!	
24 Mg	# 1	8.109	8.109	ug/l	4.50	#VALUE!	
27 Al	# 1	7.886	7.886	ug/l	3.77	#VALUE!	
39 K	# 2	-1.416	-1.416	ug/l	57.09	#VALUE!	
40 Ca	# 1	7.7	7.7	ug/l	7.49	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.1598	0.1598	ug/l	25.89	#VALUE!	
51 V	# 2	0.02427	0.02427	ug/l	29.47	#VALUE!	
52 Cr	# 2	0.03582	0.03582	ug/l	16.63	#VALUE!	
55 Mn	# 3	0.02797	0.02797	ug/l	8.39	#VALUE!	
56 Fe	# 1	9.2	9.2	ug/l	4.54	#VALUE!	
59 Co	# 3	0.02099	0.02099	ug/l	17.36	#VALUE!	
60 Ni	# 2	-0.008116	-0.008116	ug/l	58.08	#VALUE!	
63 Cu	# 2	-0.003568	-0.003568	ug/l	289.80	#VALUE!	
65 Cu	# 2	0.003079	0.003079	ug/l	309.65	#VALUE!	
65 Cu	# 3	-0.007776	-0.007776	ug/l	223.38	#VALUE!	
66 Zn	# 3	0.02956	0.02956	ug/l	80.41	#VALUE!	
68 Zn	# 3	0.03113	0.03113	ug/l	88.79	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	-0.003967	-0.003967	ug/l	172.22	#VALUE!	
78 Se	# 1	-0.001422	-0.001422	ug/l	57.89	#VALUE!	
88 Sr	# 3	0.02601	0.02601	ug/l	15.73	#VALUE!	
90 Zr	# 3	0.01728	0.01728	ug/l	13.80	#VALUE!	
91 Zr	# 3	0.01412	0.01412	ug/l	73.58	#VALUE!	
95 Mo	# 3	0.6284	0.6284	ug/l	7.72	#VALUE!	
107 Ag	# 3	0.005392	0.005392	ug/l	18.75	#VALUE!	
111 Cd	# 3	-4.371E-005	-4.371E-005	ug/l	1931.60	#VALUE!	
118 Sn	# 3	0.04319	0.04319	ug/l	14.72	#VALUE!	
121 Sb	# 3	0.0004691	0.0004691	ug/l	312.30	#VALUE!	
137 Ba	# 3	0.01947	0.01947	ug/l	29.99	#VALUE!	
201 Hg	# 3	0.004583	0.004583	ug/l	42.55	#VALUE!	
202 Hg	# 3	0.004547	0.004547	ug/l	27.73	#VALUE!	
203 Tl	# 3	-0.001172	-0.001172	ug/l	51.24	#VALUE!	
205 Tl	# 3	-0.0003646	-0.0003646	ug/l	316.51	#VALUE!	
208 Pb	# 3	0.01922	0.01922	ug/l	3.97	#VALUE!	
232 Th	# 3	0.003258	0.003258	ug/l	11.35	#VALUE!	
238 U	# 3	-0.0001221	-0.0001221	ug/l	166.01	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	524499.50	1.10	643928.69	81.5	60 - 125	
45 Sc	# 1	268073.03	0.47	329114.28	81.5	60 - 125	
45 Sc	# 3	723449.00	0.78	872836.06	82.9	60 - 125	
74 Ge	# 1	101295.45	0.88	122381.69	82.8	60 - 125	
74 Ge	# 2	17868.85	3.07	21667.30	82.5	60 - 125	
74 Ge	# 3	184606.64	0.58	224459.19	82.2	60 - 125	
89 Y	# 3	1025786.90	1.37	1247149.90	82.3	60 - 125	
115 In	# 3	1147889.80	1.11	1396206.60	82.2	60 - 125	
159 Tb	# 3	1722817.00	1.16	2071474.10	83.2	60 - 125	
209 Bi	# 3	1119564.10	1.55	1349994.40	82.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\167SMPL.D\167SMPL.D#
Date Acquired: Mar 24 2009 04:26 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: RINSE
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0009959	-0.0009959	ug/l	0.00	#VALUE!	
11 B	# 3	0.02758	0.02758	ug/l	80.24	#VALUE!	
23 Na	# 1	90.68	90.68	ug/l	86.92	#VALUE!	
24 Mg	# 1	103.2	103.2	ug/l	62.81	#VALUE!	
27 Al	# 1	94.72	94.72	ug/l	63.54	#VALUE!	
39 K	# 2	-4.274	-4.274	ug/l	14.04	#VALUE!	
40 Ca	# 1	111.9	111.9	ug/l	65.34	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.1284	0.1284	ug/l	5.54	#VALUE!	
51 V	# 2	0.02323	0.02323	ug/l	34.51	#VALUE!	
52 Cr	# 2	0.02856	0.02856	ug/l	33.63	#VALUE!	
55 Mn	# 3	0.02858	0.02858	ug/l	10.35	#VALUE!	
56 Fe	# 1	110.7	110.7	ug/l	63.38	#VALUE!	
59 Co	# 3	0.02035	0.02035	ug/l	25.46	#VALUE!	
60 Ni	# 2	-0.0108	-0.0108	ug/l	144.91	#VALUE!	
63 Cu	# 2	-0.002586	-0.002586	ug/l	240.29	#VALUE!	
65 Cu	# 2	-0.004182	-0.004182	ug/l	122.31	#VALUE!	
65 Cu	# 3	-0.009744	-0.009744	ug/l	14.78	#VALUE!	
66 Zn	# 3	0.05124	0.05124	ug/l	53.30	#VALUE!	
68 Zn	# 3	0.06898	0.06898	ug/l	59.87	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.00663	0.00663	ug/l	63.44	#VALUE!	
78 Se	# 1	0.07837	0.07837	ug/l	64.68	#VALUE!	
88 Sr	# 3	0.02279	0.02279	ug/l	5.87	#VALUE!	
90 Zr	# 3	0.01716	0.01716	ug/l	22.63	#VALUE!	
91 Zr	# 3	0.003581	0.003581	ug/l	356.88	#VALUE!	
95 Mo	# 3	0.3832	0.3832	ug/l	3.05	#VALUE!	
107 Ag	# 3	0.002895	0.002895	ug/l	41.83	#VALUE!	
111 Cd	# 3	0.001706	0.001706	ug/l	103.34	#VALUE!	
118 Sn	# 3	0.0413	0.0413	ug/l	1.27	#VALUE!	
121 Sb	# 3	0.00172	0.00172	ug/l	164.19	#VALUE!	
137 Ba	# 3	0.02345	0.02345	ug/l	8.52	#VALUE!	
201 Hg	# 3	0.00339	0.00339	ug/l	56.28	#VALUE!	
202 Hg	# 3	0.003607	0.003607	ug/l	38.92	#VALUE!	
203 Tl	# 3	-0.0008465	-0.0008465	ug/l	31.13	#VALUE!	
205 Tl	# 3	-0.0008016	-0.0008016	ug/l	95.47	#VALUE!	
208 Pb	# 3	0.01997	0.01997	ug/l	18.38	#VALUE!	
232 Th	# 3	0.002603	0.002603	ug/l	41.34	#VALUE!	
238 U	# 3	8.86E-006	8.86E-006	ug/l	1334.80	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	527572.88	2.26	643928.69	81.9	60 - 125	
45 Sc	# 1	274154.16	1.03	329114.28	83.3	60 - 125	
45 Sc	# 3	727721.19	0.86	872836.06	83.4	60 - 125	
74 Ge	# 1	102977.47	0.15	122381.69	84.1	60 - 125	
74 Ge	# 2	17957.48	1.92	21667.30	82.9	60 - 125	
74 Ge	# 3	184617.02	0.79	224459.19	82.2	60 - 125	
89 Y	# 3	1041331.40	0.39	1247149.90	83.5	60 - 125	
115 In	# 3	1147275.30	1.04	1396206.60	82.2	60 - 125	
159 Tb	# 3	1715724.50	1.48	2071474.10	82.8	60 - 125	
209 Bi	# 3	1119453.30	1.04	1349994.40	82.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\168_CCV.D\168_CCV.D#
Date Acquired: Mar 24 2009 04:32 pm
Operator: BB
Sample Name: CCV
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.		RSD(%)	Expected	QC Range(%)		Flag
9 Be	# 3	50.23	ug/l	0.49	50.00	90 -	110	
11 B	# 3	87.2	ug/l	0.17	100.00	90 -	110	Fail
23 Na	# 1	4846	ug/l	0.37	5000.00	90 -	110	
24 Mg	# 1	4922	ug/l	0.43	5000.00	90 -	110	
27 Al	# 1	499.4	ug/l	0.06	500.00	90 -	110	
39 K	# 2	4511	ug/l	1.32	5000.00	90 -	110	
40 Ca	# 1	4907	ug/l	0.48	5000.00	90 -	110	
45 Sc	# 2	--------	ug/l	--------	---	##### -	#####	
47 Ti	# 3	49.49	ug/l	0.60	50.00	90 -	110	
51 V	# 2	48.2	ug/l	1.69	50.00	90 -	110	
52 Cr	# 2	47.85	ug/l	1.33	50.00	90 -	110	
55 Mn	# 3	475.4	ug/l	1.10	500.00	90 -	110	
56 Fe	# 1	4978	ug/l	0.45	5000.00	90 -	110	
59 Co	# 3	47.88	ug/l	0.61	50.00	90 -	110	
60 Ni	# 2	48.05	ug/l	2.45	50.00	90 -	110	
63 Cu	# 2	48.94	ug/l	1.82	50.00	90 -	110	
65 Cu	# 2	48.99	ug/l	2.59	50.00	90 -	110	
65 Cu	# 3	49.3	ug/l	0.55	50.00	90 -	110	
66 Zn	# 3	48.77	ug/l	0.53	50.00	90 -	110	
68 Zn	# 3	48.54	ug/l	1.07	50.00	90 -	110	
70 Ge	# 2	--------	ug/l	--------	---	##### -	#####	
75 As	# 2	48.18	ug/l	1.14	50.00	90 -	110	
78 Se	# 1	46.92	ug/l	0.57	50.00	90 -	110	
88 Sr	# 3	48.71	ug/l	0.89	50.00	90 -	110	
90 Zr	# 3	496.5	ug/l	1.13	500.00	90 -	110	
91 Zr	# 3	503.1	ug/l	1.03	500.00	90 -	110	
95 Mo	# 3	50.17	ug/l	1.09	50.00	90 -	110	
107 Ag	# 3	49.29	ug/l	1.31	50.00	90 -	110	
111 Cd	# 3	49.63	ug/l	0.82	50.00	90 -	110	
118 Sn	# 3	49.45	ug/l	1.11	50.00	90 -	110	
121 Sb	# 3	49.18	ug/l	1.19	50.00	90 -	110	
137 Ba	# 3	49.22	ug/l	0.75	50.00	90 -	110	
201 Hg	# 3	2.513	ug/l	0.77	2.50	90 -	110	
202 Hg	# 3	2.529	ug/l	0.39	2.50	90 -	110	
203 Tl	# 3	9.745	ug/l	0.67	10.00	90 -	110	
205 Tl	# 3	9.754	ug/l	0.95	10.00	90 -	110	
208 Pb	# 3	48.05	ug/l	1.01	50.00	90 -	110	
232 Th	# 3	48.87	ug/l	0.64	---	##### -	#####	
238 U	# 3	48.26	ug/l	0.23	---	##### -	#####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	# 3	500249.78	1.12	643928.69	77.7	60 -	125	
45 Sc	# 1	263372.13	0.82	329114.28	80.0	60 -	125	
45 Sc	# 3	712672.75	0.60	872836.06	81.7	60 -	125	
74 Ge	# 1	99614.70	0.81	122381.69	81.4	60 -	125	
74 Ge	# 2	17535.81	3.28	21667.30	80.9	60 -	125	
74 Ge	# 3	178500.02	0.48	224459.19	79.5	60 -	125	
89 Y	# 3	1000293.10	0.69	1247149.90	80.2	60 -	125	
115 In	# 3	1109362.50	1.13	1396206.60	79.5	60 -	125	
159 Tb	# 3	1695504.80	1.50	2071474.10	81.9	60 -	125	
209 Bi	# 3	1079647.40	1.27	1349994.40	80.0	60 -	125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\169_CCB.D\169_CCB.D#
Date Acquired: Mar 24 2009 04:40 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.001961 ug/l	34.66	#VALUE!	
11 B	0.52 ug/l	17.64	#VALUE!	
23 Na	-31.36 ug/l	0.61	#VALUE!	
24 Mg	0.467 ug/l	21.86	#VALUE!	
27 Al	0.1228 ug/l	72.10	#VALUE!	
39 K	-5.802 ug/l	14.05	#VALUE!	
40 Ca	-0.5045 ug/l	20.85	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.01743 ug/l	52.36	#VALUE!	
51 V	-0.00228 ug/l	161.40	#VALUE!	
52 Cr	-0.002932 ug/l	131.11	#VALUE!	
55 Mn	0.02835 ug/l	9.97	#VALUE!	
56 Fe	0.8259 ug/l	5.50	#VALUE!	
59 Co	0.0004795 ug/l	341.40	#VALUE!	
60 Ni	-0.03821 ug/l	38.58	#VALUE!	
63 Cu	-0.04841 ug/l	23.28	#VALUE!	
65 Cu	-0.03743 ug/l	30.99	#VALUE!	
65 Cu	-0.0445 ug/l	1.26	#VALUE!	
66 Zn	-0.1486 ug/l	12.15	#VALUE!	
68 Zn	-0.1548 ug/l	16.18	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.01859 ug/l	63.80	#VALUE!	
78 Se	0.02538 ug/l	39.64	#VALUE!	
88 Sr	0.001694 ug/l	10.53	#VALUE!	
90 Zr	0.3707 ug/l	4.28	#VALUE!	
91 Zr	0.367 ug/l	5.65	#VALUE!	
95 Mo	0.1835 ug/l	4.12	#VALUE!	
107 Ag	0.005547 ug/l	25.82	#VALUE!	
111 Cd	0.006074 ug/l	26.39	#VALUE!	
118 Sn	0.03009 ug/l	8.22	#VALUE!	
121 Sb	0.01412 ug/l	27.56	#VALUE!	
137 Ba	0.00375 ug/l	3.05	#VALUE!	
201 Hg	0.02808 ug/l	2.83	#VALUE!	
202 Hg	0.02773 ug/l	5.87	#VALUE!	
203 Tl	0.02702 ug/l	12.59	#VALUE!	
205 Tl	0.02615 ug/l	16.54	#VALUE!	
208 Pb	0.002306 ug/l	34.64	#VALUE!	
232 Th	0.04492 ug/l	9.30	#VALUE!	
238 U	0.007249 ug/l	27.00	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	504678.06	1.76	643928.69	78.4	60 - 125	
45 Sc	263320.34	1.00	329114.28	80.0	60 - 125	
45 Sc	704946.38	0.20	872836.06	80.8	60 - 125	
74 Ge	99995.26	1.16	122381.69	81.7	60 - 125	
74 Ge	17765.75	0.74	21667.30	82.0	60 - 125	
74 Ge	181663.78	0.99	224459.19	80.9	60 - 125	
89 Y	1000444.10	1.20	1247149.90	80.2	60 - 125	
115 In	1126543.10	0.86	1396206.60	80.7	60 - 125	
159 Tb	1700813.90	0.89	2071474.10	82.1	60 - 125	
209 Bi	1102214.60	1.51	1349994.40	81.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\215_CCV.D\215_CCV.D#
Date Acquired: Mar 24 2009 09:50 pm
Operator: BB
Sample Name: CCV
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	51.89 ug/l	0.97	50.00	90 - 110	
11 B	# 3	87.1 ug/l	0.76	100.00	90 - 110	Fail
23 Na	# 1	4809 ug/l	0.74	5000.00	90 - 110	
24 Mg	# 1	4861 ug/l	0.75	5000.00	90 - 110	
27 Al	# 1	490.7 ug/l	0.43	500.00	90 - 110	
39 K	# 2	4478 ug/l	0.20	5000.00	90 - 110	Fail
40 Ca	# 1	4905 ug/l	0.32	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------	---	##### - #####	
47 Ti	# 3	49.53 ug/l	0.52	50.00	90 - 110	
51 V	# 2	48.44 ug/l	0.28	50.00	90 - 110	
52 Cr	# 2	48 ug/l	0.03	50.00	90 - 110	
55 Mn	# 3	467.2 ug/l	0.72	500.00	90 - 110	
56 Fe	# 1	5013 ug/l	0.37	5000.00	90 - 110	
59 Co	# 3	46.24 ug/l	2.68	50.00	90 - 110	
60 Ni	# 2	48.82 ug/l	0.30	50.00	90 - 110	
63 Cu	# 2	49.25 ug/l	1.31	50.00	90 - 110	
65 Cu	# 2	49.42 ug/l	1.07	50.00	90 - 110	
65 Cu	# 3	49.49 ug/l	0.53	50.00	90 - 110	
66 Zn	# 3	48.2 ug/l	0.50	50.00	90 - 110	
68 Zn	# 3	47.57 ug/l	0.81	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------	---	##### - #####	
75 As	# 2	50.46 ug/l	1.09	50.00	90 - 110	
78 Se	# 1	46.85 ug/l	0.69	50.00	90 - 110	
88 Sr	# 3	49.15 ug/l	0.85	50.00	90 - 110	
90 Zr	# 3	494.6 ug/l	0.74	500.00	90 - 110	
91 Zr	# 3	505.4 ug/l	1.08	500.00	90 - 110	
95 Mo	# 3	50.35 ug/l	1.23	50.00	90 - 110	
107 Ag	# 3	49.24 ug/l	0.93	50.00	90 - 110	
111 Cd	# 3	49.65 ug/l	1.50	50.00	90 - 110	
118 Sn	# 3	49.54 ug/l	0.85	50.00	90 - 110	
121 Sb	# 3	49.92 ug/l	1.35	50.00	90 - 110	
137 Ba	# 3	49.77 ug/l	1.68	50.00	90 - 110	
201 Hg	# 3	2.562 ug/l	1.52	2.50	90 - 110	
202 Hg	# 3	2.551 ug/l	0.85	2.50	90 - 110	
203 Tl	# 3	9.479 ug/l	0.92	10.00	90 - 110	
205 Tl	# 3	9.465 ug/l	1.30	10.00	90 - 110	
208 Pb	# 3	45.92 ug/l	0.43	50.00	90 - 110	
232 Th	# 3	48.97 ug/l	0.90	---	##### - #####	
238 U	# 3	48.22 ug/l	0.25	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	449621.50	1.86	643928.69	69.8	60 - 125	
45 Sc	# 1	237042.48	0.95	329114.28	72.0	60 - 125	
45 Sc	# 3	662190.75	1.51	872836.06	75.9	60 - 125	
74 Ge	# 1	91195.88	1.18	122381.69	74.5	60 - 125	
74 Ge	# 2	16478.84	2.49	21667.30	76.1	60 - 125	
74 Ge	# 3	166190.14	0.91	224459.19	74.0	60 - 125	
89 Y	# 3	932914.75	2.12	1247149.90	74.8	60 - 125	
115 In	# 3	1017393.50	1.93	1396206.60	72.9	60 - 125	
159 Tb	# 3	1565746.40	1.58	2071474.10	75.6	60 - 125	
209 Bi	# 3	969885.69	1.14	1349994.40	71.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\216_CCB.D\216_CCB.D#
Date Acquired: Mar 24 2009 09:56 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.004868 ug/l	57.25	#VALUE!	
11 B	0.7468 ug/l	6.14	#VALUE!	
23 Na	-32.86 ug/l	1.11	#VALUE!	
24 Mg	0.5269 ug/l	1.82	#VALUE!	
27 Al	0.1528 ug/l	5.97	#VALUE!	
39 K	-7.054 ug/l	32.95	#VALUE!	
40 Ca	-0.3916 ug/l	37.03	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.009348 ug/l	58.16	#VALUE!	
51 V	-0.006013 ug/l	29.20	#VALUE!	
52 Cr	-0.01064 ug/l	50.49	#VALUE!	
55 Mn	0.07351 ug/l	60.96	#VALUE!	
56 Fe	0.9717 ug/l	4.97	#VALUE!	
59 Co	0.005237 ug/l	56.08	#VALUE!	
60 Ni	-0.03958 ug/l	18.14	#VALUE!	
63 Cu	-0.04019 ug/l	12.74	#VALUE!	
65 Cu	-0.0355 ug/l	13.92	#VALUE!	
65 Cu	-0.04876 ug/l	10.96	#VALUE!	
66 Zn	-0.1632 ug/l	3.83	#VALUE!	
68 Zn	-0.1348 ug/l	6.85	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.01112 ug/l	52.80	#VALUE!	
78 Se	0.05483 ug/l	20.41	#VALUE!	
88 Sr	0.006708 ug/l	89.85	#VALUE!	
90 Zr	0.5278 ug/l	4.02	#VALUE!	
91 Zr	0.5328 ug/l	8.91	#VALUE!	
95 Mo	0.1125 ug/l	5.40	#VALUE!	
107 Ag	0.01262 ug/l	36.19	#VALUE!	
111 Cd	0.008685 ug/l	71.07	#VALUE!	
118 Sn	0.07093 ug/l	7.56	#VALUE!	
121 Sb	0.03044 ug/l	16.35	#VALUE!	
137 Ba	0.01244 ug/l	60.27	#VALUE!	
201 Hg	0.03137 ug/l	19.09	#VALUE!	
202 Hg	0.03485 ug/l	10.97	#VALUE!	
203 Tl	0.02898 ug/l	9.72	#VALUE!	
205 Tl	0.03222 ug/l	9.13	#VALUE!	
208 Pb	0.00722 ug/l	39.96	#VALUE!	
232 Th	0.05642 ug/l	3.78	#VALUE!	
238 U	0.01243 ug/l	30.16	#VALUE!	

ISTD Elements

Element	GPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	471963.84	2.17	643928.69	73.3	60 - 125	
45 Sc	239805.73	3.51	329114.28	72.9	60 - 125	
45 Sc	662888.75	0.99	872836.06	75.9	60 - 125	
74 Ge	92230.91	2.57	122381.69	75.4	60 - 125	
74 Ge	17296.96	2.38	21667.30	79.8	60 - 125	
74 Ge	170503.34	1.13	224459.19	76.0	60 - 125	
89 Y	946011.31	0.81	1247149.90	75.9	60 - 125	
115 In	1054303.60	2.16	1396206.60	75.5	60 - 125	
159 Tb	1581005.60	0.80	2071474.10	76.3	60 - 125	
209 Bi	1005304.90	0.82	1349994.40	74.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\217SMPL.D\217SMPL.D#
Date Acquired: Mar 24 2009 10:03 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: MB 133353 3005
Misc Info: 3005 1/5
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0005523	-0.0005523	ug/l	139.13	#VALUE!	
11 B	# 3	0.168	0.168	ug/l	15.27	#VALUE!	
23 Na	# 1	-32.24	-32.24	ug/l	0.49	#VALUE!	
24 Mg	# 1	0.8187	0.8187	ug/l	14.96	#VALUE!	
27 Al	# 1	0.8104	0.8104	ug/l	0.10	#VALUE!	
39 K	# 2	-5.037	-5.037	ug/l	24.76	#VALUE!	
40 Ca	# 1	3.176	3.176	ug/l	4.56	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.04563	0.04563	ug/l	12.74	#VALUE!	
51 V	# 2	0.08804	0.08804	ug/l	2.53	#VALUE!	
52 Cr	# 2	0.08659	0.08659	ug/l	14.82	#VALUE!	
55 Mn	# 3	0.007286	0.007286	ug/l	29.22	#VALUE!	
56 Fe	# 1	1.101	1.101	ug/l	8.41	#VALUE!	
59 Co	# 3	-0.002384	-0.002384	ug/l	24.14	#VALUE!	
60 Ni	# 2	0.01207	0.01207	ug/l	59.93	#VALUE!	
63 Cu	# 2	-0.03891	-0.03891	ug/l	31.15	#VALUE!	
65 Cu	# 2	-0.02207	-0.02207	ug/l	82.42	#VALUE!	
65 Cu	# 3	-0.02621	-0.02621	ug/l	23.89	#VALUE!	
66 Zn	# 3	0.06383	0.06383	ug/l	7.08	#VALUE!	
68 Zn	# 3	0.1149	0.1149	ug/l	19.43	#VALUE!	
70 Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.01761	0.01761	ug/l	21.94	#VALUE!	
78 Se	# 1	0.02086	0.02086	ug/l	36.94	#VALUE!	
88 Sr	# 3	0.0008671	0.0008671	ug/l	160.88	#VALUE!	
90 Zr	# 3	0.9125	0.9125	ug/l	0.46	#VALUE!	
91 Zr	# 3	0.9207	0.9207	ug/l	1.41	#VALUE!	
95 Mo	# 3	0.05591	0.05591	ug/l	15.96	#VALUE!	
107 Ag	# 3	0.004066	0.004066	ug/l	50.37	#VALUE!	
111 Cd	# 3	0.001642	0.001642	ug/l	1.68	#VALUE!	
118 Sn	# 3	0.0389	0.0389	ug/l	10.42	#VALUE!	
121 Sb	# 3	0.01909	0.01909	ug/l	27.83	#VALUE!	
137 Ba	# 3	0.004065	0.004065	ug/l	100.54	#VALUE!	
201 Hg	# 3	0.002234	0.002234	ug/l	89.97	#VALUE!	
202 Hg	# 3	0.004977	0.004977	ug/l	11.70	#VALUE!	
203 Tl	# 3	0.009127	0.009127	ug/l	11.47	#VALUE!	
205 Tl	# 3	0.007938	0.007938	ug/l	17.45	#VALUE!	
208 Pb	# 3	-0.001554	-0.001554	ug/l	76.77	#VALUE!	
232 Th	# 3	0.03291	0.03291	ug/l	8.81	#VALUE!	
238 U	# 3	0.001726	0.001726	ug/l	22.57	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	478598.13	1.14	643928.69	74.3	60 - 125	
45 Sc	# 1	239930.38	0.39	329114.28	72.9	60 - 125	
45 Sc	# 3	654726.25	1.50	872836.06	75.0	60 - 125	
74 Ge	# 1	90920.26	0.98	122381.69	74.3	60 - 125	
74 Ge	# 2	16595.30	4.05	21667.30	76.6	60 - 125	
74 Ge	# 3	166824.34	1.56	224459.19	74.3	60 - 125	
89 Y	# 3	930636.75	0.15	1247149.90	74.6	60 - 125	
115 In	# 3	1036912.50	1.85	1396206.60	74.3	60 - 125	
159 Tb	# 3	1577838.00	0.57	2071474.10	76.2	60 - 125	
209 Bi	# 3	1016366.40	0.99	1349994.40	75.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\218SMPL.D\218SMPL.D#
Date Acquired:	Mar 24 2009 10:10 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	LCS
Misc Info:	3005 1/5
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	9.834	9.834	ug/l	0.43	#VALUE!	
11 B	# 3	33.13	33.13	ug/l	1.52	#VALUE!	
23 Na	# 1	968	968	ug/l	0.85	#VALUE!	
24 Mg	# 1	1028	1028	ug/l	0.66	#VALUE!	
27 Al	# 1	977.7	977.7	ug/l	1.00	#VALUE!	
39 K	# 2	883.3	883.3	ug/l	0.79	#VALUE!	
40 Ca	# 1	1010	1010	ug/l	1.00	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	18.72	18.72	ug/l	1.55	#VALUE!	
51 V	# 2	19.03	19.03	ug/l	1.65	#VALUE!	
52 Cr	# 2	18.99	18.99	ug/l	0.83	#VALUE!	
55 Mn	# 3	94.68	94.68	ug/l	0.84	#VALUE!	
56 Fe	# 1	1023	1023	ug/l	0.34	#VALUE!	
59 Co	# 3	8.761	8.761	ug/l	1.26	#VALUE!	
60 Ni	# 2	19.7	19.7	ug/l	0.91	#VALUE!	
63 Cu	# 2	19.83	19.83	ug/l	0.34	#VALUE!	
65 Cu	# 2	19.75	19.75	ug/l	1.24	#VALUE!	
65 Cu	# 3	19.38	19.38	ug/l	0.26	#VALUE!	
66 Zn	# 3	19.02	19.02	ug/l	1.25	#VALUE!	
68 Zn	# 3	18.79	18.79	ug/l	2.86	#VALUE!	
70 Ge	# 2	----	---------	ug/l	--------	#VALUE!	
75 As	# 2	20.21	20.21	ug/l	1.46	#VALUE!	
78 Se	# 1	19.33	19.33	ug/l	0.58	#VALUE!	
88 Sr	# 3	17.89	17.89	ug/l	0.90	#VALUE!	
90 Zr	# 3	94.46	94.46	ug/l	0.39	#VALUE!	
91 Zr	# 3	88.07	88.07	ug/l	0.74	#VALUE!	
95 Mo	# 3	19.1	19.1	ug/l	0.80	#VALUE!	
107 Ag	# 3	9.7	9.7	ug/l	0.78	#VALUE!	
111 Cd	# 3	9.463	9.463	ug/l	0.72	#VALUE!	
118 Sn	# 3	18.41	18.41	ug/l	0.64	#VALUE!	
121 Sb	# 3	9.4	9.4	ug/l	1.23	#VALUE!	
137 Ba	# 3	18.9	18.9	ug/l	1.21	#VALUE!	
201 Hg	# 3	0.9045	0.9045	ug/l	2.06	#VALUE!	
202 Hg	# 3	0.8992	0.8992	ug/l	2.51	#VALUE!	
203 Tl	# 3	7.399	7.399	ug/l	1.04	#VALUE!	
205 Tl	# 3	7.335	7.335	ug/l	0.98	#VALUE!	
208 Pb	# 3	8.886	8.886	ug/l	0.82	#VALUE!	
232 Th	# 3	17.53	17.53	ug/l	0.73	#VALUE!	
238 U	# 3	17.44	17.44	ug/l	0.82	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	469966.28	2.24	643928.69	73.0	60 - 125	
45 Sc	# 1	239131.80	0.77	329114.28	72.7	60 - 125	
45 Sc	# 3	662278.44	2.23	872836.06	75.9	60 - 125	
74 Ge	# 1	91476.74	0.95	122381.69	74.7	60 - 125	
74 Ge	# 2	16458.45	2.65	21667.30	76.0	60 - 125	
74 Ge	# 3	166297.08	1.03	224459.19	74.1	60 - 125	
89 Y	# 3	928458.19	1.27	1247149.90	74.4	60 - 125	
115 In	# 3	1032897.30	1.54	1396206.60	74.0	60 - 125	
159 Tb	# 3	1589623.40	1.31	2071474.10	76.7	60 - 125	
209 Bi	# 3	998865.50	1.73	1349994.40	74.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\219SMPL.D\219SMPL.D#
Date Acquired:	Mar 24 2009 10:16 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-12
Misc Info:	3005 1/5
Vial Number:	3103
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.000555	-0.000555	ug/l	137.60	#VALUE!	
11 B	# 3	0.2436	0.2436	ug/l	16.28	#VALUE!	
23 Na	# 1	-29.82	-29.82	ug/l	1.59	#VALUE!	
24 Mg	# 1	1.018	1.018	ug/l	3.15	#VALUE!	
27 Al	# 1	4.433	4.433	ug/l	2.95	#VALUE!	
39 K	# 2	-4.355	-4.355	ug/l	10.43	#VALUE!	
40 Ca	# 1	7.743	7.743	ug/l	1.31	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.09414	0.09414	ug/l	11.78	#VALUE!	
51 V	# 2	0.1087	0.1087	ug/l	14.55	#VALUE!	
52 Cr	# 2	0.7764	0.7764	ug/l	0.38	#VALUE!	
55 Mn	# 3	2.836	2.836	ug/l	1.95	#VALUE!	
56 Fe	# 1	376.4	376.4	ug/l	0.59	#VALUE!	
59 Co	# 3	0.03947	0.03947	ug/l	12.51	#VALUE!	
60 Ni	# 2	1.362	1.362	ug/l	3.97	#VALUE!	
63 Cu	# 2	0.8822	0.8822	ug/l	5.27	#VALUE!	
65 Cu	# 2	0.9131	0.9131	ug/l	2.49	#VALUE!	
65 Cu	# 3	0.8919	0.8919	ug/l	2.12	#VALUE!	
66 Zn	# 3	1.359	1.359	ug/l	5.58	#VALUE!	
68 Zn	# 3	1.396	1.396	ug/l	7.35	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	---------	#VALUE!	
75 As	# 2	0.05962	0.05962	ug/l	2.77	#VALUE!	
78 Se	# 1	0.02245	0.02245	ug/l	4.61	#VALUE!	
88 Sr	# 3	0.02908	0.02908	ug/l	5.80	#VALUE!	
90 Zr	# 3	1.372	1.372	ug/l	5.74	#VALUE!	
91 Zr	# 3	1.366	1.366	ug/l	6.35	#VALUE!	
95 Mo	# 3	0.1056	0.1056	ug/l	4.95	#VALUE!	
107 Ag	# 3	0.006645	0.006645	ug/l	21.45	#VALUE!	
111 Cd	# 3	0.003303	0.003303	ug/l	88.59	#VALUE!	
118 Sn	# 3	0.05607	0.05607	ug/l	5.01	#VALUE!	
121 Sb	# 3	0.01874	0.01874	ug/l	2.12	#VALUE!	
137 Ba	# 3	0.137	0.137	ug/l	32.00	#VALUE!	
201 Hg	# 3	0.005832	0.005832	ug/l	11.65	#VALUE!	
202 Hg	# 3	0.02344	0.02344	ug/l	8.12	#VALUE!	
203 Tl	# 3	0.04454	0.04454	ug/l	11.63	#VALUE!	
205 Tl	# 3	0.04672	0.04672	ug/l	6.28	#VALUE!	
208 Pb	# 3	0.03818	0.03818	ug/l	6.78	#VALUE!	
232 Th	# 3	0.05309	0.05309	ug/l	9.98	#VALUE!	
238 U	# 3	0.004197	0.004197	ug/l	24.57	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	475705.03	1.82	643928.69	73.9	60 - 125	
45 Sc	# 1	237997.20	0.44	329114.28	72.3	60 - 125	
45 Sc	# 3	655164.81	1.16	872836.06	75.1	60 - 125	
74 Ge	# 1	90860.49	0.50	122381.69	74.2	60 - 125	
74 Ge	# 2	16634.59	3.58	21667.30	76.8	60 - 125	
74 Ge	# 3	167386.58	1.38	224459.19	74.6	60 - 125	
89 Y	# 3	925563.75	1.76	1247149.90	74.2	60 - 125	
115 In	# 3	1029785.90	1.83	1396206.60	73.8	60 - 125	
159 Tb	# 3	1565252.00	1.18	2071474.10	75.6	60 - 125	
209 Bi	# 3	1009911.90	1.58	1349994.40	74.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\220SMPL.D\220SMPL.D#
Date Acquired: Mar 24 2009 10:23 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45623-1
Misc Info: 3005 1/5
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.04051	0.04051	ug/l	16.78	#VALUE!	
11 B	# 3	4.715	4.715	ug/l	1.63	#VALUE!	
23 Na	# 1	809.8	809.8	ug/l	0.50	#VALUE!	
24 Mg	# 1	424	424	ug/l	1.35	#VALUE!	
27 Al	# 1	223.9	223.9	ug/l	0.54	#VALUE!	
39 K	# 2	733.3	733.3	ug/l	0.93	#VALUE!	
40 Ca	# 1	908.8	908.8	ug/l	0.65	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	3.734	3.734	ug/l	15.91	#VALUE!	
51 V	# 2	1.051	1.051	ug/l	3.55	#VALUE!	
52 Cr	# 2	0.4931	0.4931	ug/l	9.78	#VALUE!	
55 Mn	# 3	69.87	69.87	ug/l	0.59	#VALUE!	
56 Fe	# 1	415.6	415.6	ug/l	0.53	#VALUE!	
59 Co	# 3	0.4469	0.4469	ug/l	1.41	#VALUE!	
60 Ni	# 2	0.8118	0.8118	ug/l	7.45	#VALUE!	
63 Cu	# 2	1.331	1.331	ug/l	2.27	#VALUE!	
65 Cu	# 2	1.367	1.367	ug/l	3.55	#VALUE!	
65 Cu	# 3	1.348	1.348	ug/l	1.93	#VALUE!	
66 Zn	# 3	11.66	11.66	ug/l	1.27	#VALUE!	
68 Zn	# 3	11.58	11.58	ug/l	0.98	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.15	0.15	ug/l	19.39	#VALUE!	
78 Se	# 1	0.06872	0.06872	ug/l	20.05	#VALUE!	
88 Sr	# 3	6.237	6.237	ug/l	0.22	#VALUE!	
90 Zr	# 3	3.525	3.525	ug/l	6.81	#VALUE!	
91 Zr	# 3	3.504	3.504	ug/l	8.36	#VALUE!	
95 Mo	# 3	0.05566	0.05566	ug/l	16.16	#VALUE!	
107 Ag	# 3	0.01071	0.01071	ug/l	29.13	#VALUE!	
111 Cd	# 3	0.03046	0.03046	ug/l	28.62	#VALUE!	
118 Sn	# 3	0.04007	0.04007	ug/l	3.05	#VALUE!	
121 Sb	# 3	0.022	0.022	ug/l	11.20	#VALUE!	
137 Ba	# 3	8.325	8.325	ug/l	0.19	#VALUE!	
201 Hg	# 3	0.008253	0.008253	ug/l	29.06	#VALUE!	
202 Hg	# 3	0.006811	0.006811	ug/l	3.66	#VALUE!	
203 Tl	# 3	0.02004	0.02004	ug/l	8.11	#VALUE!	
205 Tl	# 3	0.01845	0.01845	ug/l	8.85	#VALUE!	
208 Pb	# 3	0.4072	0.4072	ug/l	2.17	#VALUE!	
232 Th	# 3	0.07769	0.07769	ug/l	2.78	#VALUE!	
238 U	# 3	0.02749	0.02749	ug/l	9.39	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	473464.09	1.86	643928.69	73.5	60 - 125	
45 Sc	# 1	239142.70	0.69	329114.28	72.7	60 - 125	
45 Sc	# 3	659347.25	2.30	872836.06	75.5	60 - 125	
74 Ge	# 1	90544.17	0.78	122381.69	74.0	60 - 125	
74 Ge	# 2	16665.74	3.19	21667.30	76.9	60 - 125	
74 Ge	# 3	165764.38	1.26	224459.19	73.9	60 - 125	
89 Y	# 3	934082.38	0.29	1247149.90	74.9	60 - 125	
115 In	# 3	1033093.40	1.21	1396206.60	74.0	60 - 125	
159 Tb	# 3	1577436.50	0.82	2071474.10	76.2	60 - 125	
209 Bi	# 3	1019463.00	1.19	1349994.40	75.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\221SMPL.D\221SMPL.D#
Date Acquired: Mar 24 2009 10:30 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45623-1L
Misc Info: 3005 1/25
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.02361	0.004722	ug/l	70.12	#VALUE!	
11 B	# 3	4.047	0.8094	ug/l	3.88	#VALUE!	
23 Na	# 1	612.5	122.5	ug/l	0.60	#VALUE!	
24 Mg	# 1	396	79.2	ug/l	0.70	#VALUE!	
27 Al	# 1	216.95	43.39	ug/l	3.61	#VALUE!	
39 K	# 2	664.5	132.9	ug/l	2.33	#VALUE!	
40 Ca	# 1	885	177	ug/l	0.36	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	3.2775	0.6555	ug/l	8.41	#VALUE!	
51 V	# 2	1.1035	0.2207	ug/l	4.66	#VALUE!	
52 Cr	# 2	0.3722	0.07444	ug/l	7.46	#VALUE!	
55 Mn	# 3	65.05	13.01	ug/l	0.47	#VALUE!	
56 Fe	# 1	395.35	79.07	ug/l	0.32	#VALUE!	
59 Co	# 3	0.4116	0.08232	ug/l	7.82	#VALUE!	
60 Ni	# 2	0.6645	0.1329	ug/l	6.33	#VALUE!	
63 Cu	# 2	1.011	0.2022	ug/l	3.40	#VALUE!	
65 Cu	# 2	1.125	0.225	ug/l	1.10	#VALUE!	
65 Cu	# 3	0.984	0.1968	ug/l	17.57	#VALUE!	
66 Zn	# 3	10.35	2.07	ug/l	5.47	#VALUE!	
68 Zn	# 3	10.27	2.054	ug/l	1.85	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.1452	0.02904	ug/l	38.15	#VALUE!	
78 Se	# 1	0.05225	0.01045	ug/l	28.07	#VALUE!	
88 Sr	# 3	6.23	1.246	ug/l	2.01	#VALUE!	
90 Zr	# 3	2.506	0.5012	ug/l	1.53	#VALUE!	
91 Zr	# 3	2.474	0.4948	ug/l	2.81	#VALUE!	
95 Mo	# 3	0.0538	0.01076	ug/l	18.69	#VALUE!	
107 Ag	# 3	0.007915	0.001583	ug/l	70.69	#VALUE!	
111 Cd	# 3	0.021995	0.004399	ug/l	23.03	#VALUE!	
118 Sn	# 3	0.018435	0.003687	ug/l	7.80	#VALUE!	
121 Sb	# 3	0.02772	0.005544	ug/l	43.78	#VALUE!	
137 Ba	# 3	8.085	1.617	ug/l	3.15	#VALUE!	
201 Hg	# 3	0.03462	0.006924	ug/l	21.92	#VALUE!	
202 Hg	# 3	0.045005	0.009001	ug/l	31.42	#VALUE!	
203 Tl	# 3	0.03539	0.007078	ug/l	18.11	#VALUE!	
205 Tl	# 3	0.03241	0.006482	ug/l	23.40	#VALUE!	
208 Pb	# 3	0.36955	0.07391	ug/l	4.23	#VALUE!	
232 Th	# 3	0.08295	0.01659	ug/l	7.44	#VALUE!	
238 U	# 3	0.026165	0.005233	ug/l	10.15	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	485548.84	0.21	643928.69	75.4	60 - 125	
45 Sc	# 1	246513.36	0.84	329114.28	74.9	60 - 125	
45 Sc	# 3	670744.94	0.92	872836.06	76.8	60 - 125	
74 Ge	# 1	94011.09	1.21	122361.69	76.8	60 - 125	
74 Ge	# 2	17273.21	2.07	21667.30	79.7	60 - 125	
74 Ge	# 3	171101.44	1.21	224459.19	76.2	60 - 125	
89 Y	# 3	946427.50	1.55	1247149.90	75.9	60 - 125	
115 In	# 3	1063384.60	1.70	1396206.60	76.2	60 - 125	
159 Tb	# 3	1602400.80	1.60	2071474.10	77.4	60 - 125	
209 Bi	# 3	1024508.80	0.99	1349994.40	75.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\222SMPL.D\222SMPL.D#
Date Acquired:	Mar 24 2009 10:37 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45623-1A
Misc Info:	3005 1/5
Vial Number:	3106
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	22.11	22.11	ug/l	0.49	#VALUE!	
11	B	# 3	42.14	42.14	ug/l	1.00	#VALUE!	
23	Na	# 1	2962	2962	ug/l	1.03	#VALUE!	
24	Mg	# 1	2576	2576	ug/l	0.79	#VALUE!	
27	Al	# 1	451.4	451.4	ug/l	3.66	#VALUE!	
39	K	# 2	2749	2749	ug/l	1.07	#VALUE!	
40	Ca	# 1	3121	3121	ug/l	0.38	#VALUE!	
45	Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47	Ti	# 3	25.23	25.23	ug/l	1.41	#VALUE!	
51	V	# 2	22.05	22.05	ug/l	1.09	#VALUE!	
52	Cr	# 2	21.32	21.32	ug/l	0.59	#VALUE!	
55	Mn	# 3	275.7	275.7	ug/l	0.67	#VALUE!	
56	Fe	# 1	2623	2623	ug/l	0.37	#VALUE!	
59	Co	# 3	20.12	20.12	ug/l	0.63	#VALUE!	
60	Ni	# 2	22.49	22.49	ug/l	1.71	#VALUE!	
63	Cu	# 2	23.2	23.2	ug/l	1.49	#VALUE!	
65	Cu	# 2	22.94	22.94	ug/l	1.12	#VALUE!	
65	Cu	# 3	22.84	22.84	ug/l	0.69	#VALUE!	
66	Zn	# 3	32.81	32.81	ug/l	0.80	#VALUE!	
68	Zn	# 3	32.15	32.15	ug/l	1.21	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	21.61	21.61	ug/l	1.03	#VALUE!	
78	Se	# 1	20.74	20.74	ug/l	1.15	#VALUE!	
88	Sr	# 3	26.07	26.07	ug/l	0.51	#VALUE!	
90	Zr	# 3	215.1	215.1	ug/l	1.27	#VALUE!	
91	Zr	# 3	202.1	202.1	ug/l	1.15	#VALUE!	
95	Mo	# 3	21.55	21.55	ug/l	0.39	#VALUE!	
107	Ag	# 3	21.63	21.63	ug/l	1.38	#VALUE!	
111	Cd	# 3	21.28	21.28	ug/l	1.41	#VALUE!	
118	Sn	# 3	20.89	20.89	ug/l	0.37	#VALUE!	
121	Sb	# 3	20.32	20.32	ug/l	0.79	#VALUE!	
137	Ba	# 3	29.62	29.62	ug/l	0.54	#VALUE!	
201	Hg	# 3	1.158	1.158	ug/l	1.00	#VALUE!	
202	Hg	# 3	1.181	1.181	ug/l	1.36	#VALUE!	
203	Tl	# 3	4.171	4.171	ug/l	1.29	#VALUE!	
205	Tl	# 3	4.187	4.187	ug/l	1.39	#VALUE!	
208	Pb	# 3	20.54	20.54	ug/l	0.64	#VALUE!	
232	Th	# 3	19.76	19.76	ug/l	0.48	#VALUE!	
238	U	# 3	19.63	19.63	ug/l	1.12	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	471452.91	1.10	643928.69	73.2	60 - 125	
45	Sc	# 1	241468.52	1.13	329114.28	73.4	60 - 125	
45	Sc	# 3	667813.63	1.68	872836.06	76.5	60 - 125	
74	Ge	# 1	91692.27	0.73	122381.69	74.9	60 - 125	
74	Ge	# 2	16596.04	1.86	21667.30	76.6	60 - 125	
74	Ge	# 3	167485.95	0.21	224459.19	74.6	60 - 125	
89	Y	# 3	948413.63	1.03	1247149.90	76.0	60 - 125	
115	In	# 3	1036703.60	0.73	1396206.60	74.3	60 - 125	
159	Tb	# 3	1569396.40	0.73	2071474.10	75.8	60 - 125	
209	Bi	# 3	999194.06	1.10	1349994.40	74.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\223SMPL.D\223SMPL.D#
Date Acquired:	Mar 24 2009 10:43 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45623-1S
Misc Info:	3005 1/5
Vial Number:	3107
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	10.93	10.93	ug/l	3.33	#VALUE!	
11 B	# 3	42.02	42.02	ug/l	2.85	#VALUE!	
23 Na	# 1	1892	1892	ug/l	0.32	#VALUE!	
24 Mg	# 1	1501	1501	ug/l	1.11	#VALUE!	
27 Al	# 1	1310	1310	ug/l	1.12	#VALUE!	
39 K	# 2	1728	1728	ug/l	0.76	#VALUE!	
40 Ca	# 1	1908	1908	ug/l	0.60	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	25.73	25.73	ug/l	0.51	#VALUE!	
51 V	# 2	21.73	21.73	ug/l	1.65	#VALUE!	
52 Cr	# 2	21.37	21.37	ug/l	1.43	#VALUE!	
55 Mn	# 3	137.3	137.3	ug/l	2.08	#VALUE!	
56 Fe	# 1	1403	1403	ug/l	0.23	#VALUE!	
59 Co	# 3	10.02	10.02	ug/l	1.97	#VALUE!	
60 Ni	# 2	22.06	22.06	ug/l	2.31	#VALUE!	
63 Cu	# 2	22.98	22.98	ug/l	1.08	#VALUE!	
65 Cu	# 2	22.96	22.96	ug/l	1.62	#VALUE!	
65 Cu	# 3	22.77	22.77	ug/l	1.91	#VALUE!	
66 Zn	# 3	29.98	29.98	ug/l	1.41	#VALUE!	
68 Zn	# 3	29.42	29.42	ug/l	1.67	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	21.93	21.93	ug/l	1.28	#VALUE!	
78 Se	# 1	21.35	21.35	ug/l	0.72	#VALUE!	
88 Sr	# 3	25.2	25.2	ug/l	1.33	#VALUE!	
90 Zr	# 3	104.4	104.4	ug/l	1.57	#VALUE!	
91 Zr	# 3	96.16	96.16	ug/l	0.71	#VALUE!	
95 Mo	# 3	21.47	21.47	ug/l	1.07	#VALUE!	
107 Ag	# 3	10.72	10.72	ug/l	1.32	#VALUE!	
111 Cd	# 3	10.7	10.7	ug/l	1.36	#VALUE!	
118 Sn	# 3	20.78	20.78	ug/l	0.27	#VALUE!	
121 Sb	# 3	10.62	10.62	ug/l	0.98	#VALUE!	
137 Ba	# 3	26.74	26.74	ug/l	1.39	#VALUE!	
201 Hg	# 3	0.9967	0.9967	ug/l	2.92	#VALUE!	
202 Hg	# 3	0.9952	0.9952	ug/l	2.06	#VALUE!	
203 Tl	# 3	8.252	8.252	ug/l	0.78	#VALUE!	
205 Tl	# 3	8.268	8.268	ug/l	0.42	#VALUE!	
208 Pb	# 3	10.2	10.2	ug/l	0.86	#VALUE!	
232 Th	# 3	19.36	19.36	ug/l	1.62	#VALUE!	
238 U	# 3	19.45	19.45	ug/l	1.90	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	479790.72	2.26	643928.69	74.5	60 - 125	
45 Sc	# 1	243353.52	0.76	329114.28	73.9	60 - 125	
45 Sc	# 3	671358.19	0.68	872836.06	76.9	60 - 125	
74 Ge	# 1	91826.38	0.87	122381.69	75.0	60 - 125	
74 Ge	# 2	16784.43	2.42	21667.30	77.5	60 - 125	
74 Ge	# 3	168649.86	1.69	224459.19	75.1	60 - 125	
89 Y	# 3	952653.31	1.43	1247149.90	76.4	60 - 125	
115 In	# 3	1041920.70	1.26	1396206.60	74.6	60 - 125	
159 Tb	# 3	1597611.40	1.41	2071474.10	77.1	60 - 125	
209 Bi	# 3	1012785.10	2.12	1349994.40	75.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\224SMPL.D\224SMPL.D#
Date Acquired: Mar 24 2009 10:50 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45623-1SD
Misc Info: 3005 1/5
Vial Number: 3108
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	10.94	10.94	ug/l	2.34	#VALUE!	
11 B	# 3	41.89	41.89	ug/l	1.96	#VALUE!	
23 Na	# 1	1896	1896	ug/l	0.28	#VALUE!	
24 Mg	# 1	1506	1506	ug/l	0.94	#VALUE!	
27 Al	# 1	1290	1290	ug/l	1.29	#VALUE!	
39 K	# 2	1687	1687	ug/l	1.91	#VALUE!	
40 Ca	# 1	1903	1903	ug/l	0.30	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	23.9	23.9	ug/l	2.14	#VALUE!	
51 V	# 2	21.26	21.26	ug/l	0.69	#VALUE!	
52 Cr	# 2	21.25	21.25	ug/l	1.09	#VALUE!	
55 Mn	# 3	145.6	145.6	ug/l	1.25	#VALUE!	
56 Fe	# 1	1429	1429	ug/l	0.78	#VALUE!	
59 Co	# 3	9.915	9.915	ug/l	0.97	#VALUE!	
60 Ni	# 2	22.15	22.15	ug/l	2.15	#VALUE!	
63 Cu	# 2	22.66	22.66	ug/l	0.67	#VALUE!	
65 Cu	# 2	22.91	22.91	ug/l	1.39	#VALUE!	
65 Cu	# 3	22.28	22.28	ug/l	1.13	#VALUE!	
66 Zn	# 3	29.9	29.9	ug/l	1.18	#VALUE!	
68 Zn	# 3	29.79	29.79	ug/l	1.34	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	21.89	21.89	ug/l	1.73	#VALUE!	
78 Se	# 1	21.32	21.32	ug/l	0.90	#VALUE!	
88 Sr	# 3	25.14	25.14	ug/l	0.50	#VALUE!	
90 Zr	# 3	102.5	102.5	ug/l	0.37	#VALUE!	
91 Zr	# 3	94.84	94.84	ug/l	0.62	#VALUE!	
95 Mo	# 3	20.9	20.9	ug/l	1.77	#VALUE!	
107 Ag	# 3	10.72	10.72	ug/l	1.45	#VALUE!	
111 Cd	# 3	10.56	10.56	ug/l	1.41	#VALUE!	
118 Sn	# 3	20.17	20.17	ug/l	0.71	#VALUE!	
121 Sb	# 3	10.46	10.46	ug/l	2.02	#VALUE!	
137 Ba	# 3	26.65	26.65	ug/l	1.69	#VALUE!	
201 Hg	# 3	0.9769	0.9769	ug/l	3.44	#VALUE!	
202 Hg	# 3	0.9915	0.9915	ug/l	1.74	#VALUE!	
203 Tl	# 3	8.189	8.189	ug/l	0.88	#VALUE!	
205 Tl	# 3	8.151	8.151	ug/l	0.64	#VALUE!	
208 Pb	# 3	10.06	10.06	ug/l	1.52	#VALUE!	
232 Th	# 3	19.02	19.02	ug/l	1.82	#VALUE!	
238 U	# 3	19.07	19.07	ug/l	1.51	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	476429.88	1.11	643928.69	74.0	60 - 125	
45 Sc	# 1	244737.78	0.86	329114.28	74.4	60 - 125	
45 Sc	# 3	675493.31	1.20	872836.06	77.4	60 - 125	
74 Ge	# 1	92302.94	1.07	122381.69	75.4	60 - 125	
74 Ge	# 2	16802.60	2.12	21667.30	77.5	60 - 125	
74 Ge	# 3	169248.45	0.81	224459.19	75.4	60 - 125	
89 Y	# 3	946049.75	0.52	1247149.90	75.9	60 - 125	
115 In	# 3	1042929.70	1.34	1396206.60	74.7	60 - 125	
159 Tb	# 3	1595210.40	1.58	2071474.10	77.0	60 - 125	
209 Bi	# 3	1011289.90	1.75	1349994.40	74.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\225SMPL.D\225SMPL.D#
Date Acquired:	Mar 24 2009 10:57 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45623-2
Misc Info:	3005 1/5
Vial Number:	3109
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.01808	0.01808	ug/l	13.73	#VALUE!	
11 B	# 3	4.835	4.835	ug/l	3.86	#VALUE!	
23 Na	# 1	779	779	ug/l	1.46	#VALUE!	
24 Mg	# 1	374.8	374.8	ug/l	1.20	#VALUE!	
27 Al	# 1	190.8	190.8	ug/l	1.88	#VALUE!	
39 K	# 2	802.2	802.2	ug/l	0.40	#VALUE!	
40 Ca	# 1	723.6	723.6	ug/l	0.27	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	4.367	4.367	ug/l	10.11	#VALUE!	
51 V	# 2	0.5931	0.5931	ug/l	3.84	#VALUE!	
52 Cr	# 2	0.3792	0.3792	ug/l	7.33	#VALUE!	
55 Mn	# 3	23.26	23.26	ug/l	1.32	#VALUE!	
56 Fe	# 1	229.5	229.5	ug/l	0.78	#VALUE!	
59 Co	# 3	0.1691	0.1691	ug/l	0.66	#VALUE!	
60 Ni	# 2	0.6129	0.6129	ug/l	0.48	#VALUE!	
63 Cu	# 2	0.8121	0.8121	ug/l	3.72	#VALUE!	
65 Cu	# 2	0.7876	0.7876	ug/l	2.32	#VALUE!	
65 Cu	# 3	0.8229	0.8229	ug/l	3.51	#VALUE!	
66 Zn	# 3	6.788	6.788	ug/l	0.72	#VALUE!	
68 Zn	# 3	6.782	6.782	ug/l	2.18	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.1197	0.1197	ug/l	4.65	#VALUE!	
78 Se	# 1	0.05406	0.05406	ug/l	34.04	#VALUE!	
88 Sr	# 3	4.632	4.632	ug/l	0.46	#VALUE!	
90 Zr	# 3	2.159	2.159	ug/l	6.25	#VALUE!	
91 Zr	# 3	2.086	2.086	ug/l	8.68	#VALUE!	
95 Mo	# 3	0.08508	0.08508	ug/l	7.44	#VALUE!	
107 Ag	# 3	0.004784	0.004784	ug/l	31.71	#VALUE!	
111 Cd	# 3	0.01393	0.01393	ug/l	6.21	#VALUE!	
118 Sn	# 3	0.05535	0.05535	ug/l	14.53	#VALUE!	
121 Sb	# 3	0.04935	0.04935	ug/l	17.43	#VALUE!	
137 Ba	# 3	4.616	4.616	ug/l	0.46	#VALUE!	
201 Hg	# 3	0.01115	0.01115	ug/l	13.66	#VALUE!	
202 Hg	# 3	0.01074	0.01074	ug/l	17.24	#VALUE!	
203 Tl	# 3	0.06228	0.06228	ug/l	8.63	#VALUE!	
205 Tl	# 3	0.05811	0.05811	ug/l	5.87	#VALUE!	
208 Pb	# 3	0.1175	0.1175	ug/l	1.11	#VALUE!	
232 Th	# 3	0.1351	0.1351	ug/l	7.27	#VALUE!	
238 U	# 3	0.01283	0.01283	ug/l	11.26	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	481135.88	1.73	643928.69	74.7	60 - 125	
45 Sc	# 1	242638.94	0.54	329114.28	73.7	60 - 125	
45 Sc	# 3	669383.31	1.90	872636.06	76.7	60 - 125	
74 Ge	# 1	91599.14	0.37	122381.69	74.8	60 - 125	
74 Ge	# 2	16726.58	2.17	21667.30	77.2	60 - 125	
74 Ge	# 3	167895.75	1.13	224459.19	74.8	60 - 125	
89 Y	# 3	947847.88	1.25	1247149.90	76.0	60 - 125	
115 In	# 3	1043540.90	1.28	1396206.60	74.7	60 - 125	
159 Tb	# 3	1585134.60	0.80	2071474.10	76.5	60 - 125	
209 Bi	# 3	1024438.20	1.50	1349994.40	75.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\226SMPL.D\226SMPL.D#		
Date Acquired:	Mar 24 2009 11:04 pm		
Acq. Method:	EPA2002.M		
Operator:	BB		
Sample Name:	21188-2		
Misc Info:	3005 1/5		
Vial Number:	3110		
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M		
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C		
Last Cal. Update:	Mar 23 2009 12:56 pm		
Sample Type:	Sample	Tune Step	
Dilution Factor:	1.00	1	babh2.u
Autodil Factor:	Undiluted	2	babhe.u
Final Dil Factor:	1.00	3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0001443	-0.0001443	ug/l	1022.20	#VALUE!	
11 B	# 3	0.07665	0.07665	ug/l	32.85	#VALUE!	
23 Na	# 1	-30.7	-30.7	ug/l	0.63	#VALUE!	
24 Mg	# 1	0.4005	0.4005	ug/l	1.63	#VALUE!	
27 Al	# 1	0.854	0.854	ug/l	1.79	#VALUE!	
39 K	# 2	-5.674	-5.674	ug/l	20.83	#VALUE!	
40 Ca	# 1	3.94	3.94	ug/l	2.88	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.03726	0.03726	ug/l	32.80	#VALUE!	
51 V	# 2	0.1208	0.1208	ug/l	7.27	#VALUE!	
52 Cr	# 2	0.08817	0.08817	ug/l	2.68	#VALUE!	
55 Mn	# 3	0.01152	0.01152	ug/l	26.00	#VALUE!	
56 Fe	# 1	0.5912	0.5912	ug/l	4.14	#VALUE!	
59 Co	# 3	-0.002442	-0.002442	ug/l	16.47	#VALUE!	
60 Ni	# 2	0.02018	0.02018	ug/l	29.02	#VALUE!	
63 Cu	# 2	0.04112	0.04112	ug/l	18.16	#VALUE!	
65 Cu	# 2	0.04061	0.04061	ug/l	14.63	#VALUE!	
65 Cu	# 3	0.02182	0.02182	ug/l	91.93	#VALUE!	
66 Zn	# 3	0.291	0.291	ug/l	9.58	#VALUE!	
68 Zn	# 3	0.2884	0.2884	ug/l	17.29	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.02055	0.02055	ug/l	36.93	#VALUE!	
78 Se	# 1	0.008661	0.008661	ug/l	61.22	#VALUE!	
88 Sr	# 3	0.01227	0.01227	ug/l	18.09	#VALUE!	
90 Zr	# 3	0.2342	0.2342	ug/l	5.17	#VALUE!	
91 Zr	# 3	0.2096	0.2096	ug/l	5.77	#VALUE!	
95 Mo	# 3	0.03457	0.03457	ug/l	16.93	#VALUE!	
107 Ag	# 3	0.004277	0.004277	ug/l	6.41	#VALUE!	
111 Cd	# 3	0.003247	0.003247	ug/l	86.45	#VALUE!	
118 Sn	# 3	0.01873	0.01873	ug/l	20.76	#VALUE!	
121 Sb	# 3	0.02498	0.02498	ug/l	21.54	#VALUE!	
137 Ba	# 3	0.008491	0.008491	ug/l	113.89	#VALUE!	
201 Hg	# 3	0.004385	0.004385	ug/l	10.09	#VALUE!	
202 Hg	# 3	0.006645	0.006645	ug/l	15.86	#VALUE!	
203 Tl	# 3	0.01815	0.01815	ug/l	6.59	#VALUE!	
205 Tl	# 3	0.01853	0.01853	ug/l	15.55	#VALUE!	
208 Pb	# 3	0.00121	0.00121	ug/l	87.85	#VALUE!	
232 Th	# 3	0.032	0.032	ug/l	10.05	#VALUE!	
238 U	# 3	0.0001168	0.0001168	ug/l	152.83	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	497429.88	1.00	643928.69	77.2	60 - 125	
45 Sc	# 1	245479.03	0.60	329114.28	74.6	60 - 125	
45 Sc	# 3	684303.13	0.72	872836.06	78.4	60 - 125	
74 Ge	# 1	92933.34	0.48	122381.69	75.9	60 - 125	
74 Ge	# 2	16947.25	2.89	21667.30	78.2	60 - 125	
74 Ge	# 3	172618.33	1.47	224459.19	76.9	60 - 125	
89 Y	# 3	957003.19	1.54	1247149.90	76.7	60 - 125	
115 In	# 3	1064521.30	1.00	1396206.60	76.2	60 - 125	
159 Tb	# 3	1624229.90	1.68	2071474.10	78.4	60 - 125	
209 Bi	# 3	1042506.60	0.79	1349994.40	77.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\227_CCV.D\227_CCV.D#
Date Acquired: Mar 24 2009 11:10 pm
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)		Flag
9 Be	# 3	52.22 ug/l	1.19	50.00	90 -	110	
11 B	# 3	88.9 ug/l	1.16	100.00	90 -	110	Fail
23 Na	# 1	4861 ug/l	0.93	5000.00	90 -	110	
24 Mg	# 1	4899 ug/l	0.25	5000.00	90 -	110	
27 Al	# 1	494.2 ug/l	0.60	500.00	90 -	110	
39 K	# 2	4470 ug/l	1.98	5000.00	90 -	110	Fail
40 Ca	# 1	4945 ug/l	0.79	5000.00	90 -	110	
45 Sc	# 2	-------- ug/l	--------	---	##### -	#####	
47 Ti	# 3	50.87 ug/l	0.44	50.00	90 -	110	
51 V	# 2	48.27 ug/l	1.16	50.00	90 -	110	
52 Cr	# 2	47.67 ug/l	1.15	50.00	90 -	110	
55 Mn	# 3	475.6 ug/l	0.52	500.00	90 -	110	
56 Fe	# 1	5016 ug/l	0.74	5000.00	90 -	110	
59 Co	# 3	48.68 ug/l	0.65	50.00	90 -	110	
60 Ni	# 2	49.23 ug/l	1.99	50.00	90 -	110	
63 Cu	# 2	49.31 ug/l	2.45	50.00	90 -	110	
65 Cu	# 2	49.23 ug/l	1.26	50.00	90 -	110	
65 Cu	# 3	50.42 ug/l	0.45	50.00	90 -	110	
66 Zn	# 3	48.65 ug/l	1.08	50.00	90 -	110	
68 Zn	# 3	47.97 ug/l	0.57	50.00	90 -	110	
70 Ge	# 2	-------- ug/l	--------	---	##### -	#####	
75 As	# 2	49.84 ug/l	1.13	50.00	90 -	110	
78 Se	# 1	47.61 ug/l	1.13	50.00	90 -	110	
88 Sr	# 3	49.4 ug/l	1.91	50.00	90 -	110	
90 Zr	# 3	498.1 ug/l	0.56	500.00	90 -	110	
91 Zr	# 3	505.4 ug/l	0.58	500.00	90 -	110	
95 Mo	# 3	50.66 ug/l	1.20	50.00	90 -	110	
107 Ag	# 3	49.78 ug/l	0.61	50.00	90 -	110	
111 Cd	# 3	49.42 ug/l	0.60	50.00	90 -	110	
118 Sn	# 3	49.35 ug/l	0.70	50.00	90 -	110	
121 Sb	# 3	49.45 ug/l	1.02	50.00	90 -	110	
137 Ba	# 3	49.78 ug/l	0.81	50.00	90 -	110	
201 Hg	# 3	2.555 ug/l	2.15	2.50	90 -	110	
202 Hg	# 3	2.558 ug/l	0.67	2.50	90 -	110	
203 Tl	# 3	9.605 ug/l	0.74	10.00	90 -	110	
205 Tl	# 3	9.592 ug/l	0.57	10.00	90 -	110	
208 Pb	# 3	46.05 ug/l	0.31	50.00	90 -	110	
232 Th	# 3	48.54 ug/l	1.17	---	##### -	#####	
238 U	# 3	47.81 ug/l	0.82	---	##### -	#####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	# 3	470189.22	1.61	643928.69	73.0	60 -	125	
45 Sc	# 1	251238.78	0.65	329114.28	76.3	60 -	125	
45 Sc	# 3	681225.19	1.55	872836.06	78.0	60 -	125	
74 Ge	# 1	95455.10	0.73	122381.69	78.0	60 -	125	
74 Ge	# 2	17566.59	2.59	21667.30	81.1	60 -	125	
74 Ge	# 3	171275.66	0.83	224459.19	76.3	60 -	125	
89 Y	# 3	962661.44	1.06	1247149.90	77.2	60 -	125	
115 In	# 3	1050614.00	0.93	1396206.60	75.2	60 -	125	
159 Tb	# 3	1597858.00	1.55	2071474.10	77.1	60 -	125	
209 Bi	# 3	991558.75	1.80	1349994.40	73.4	60 -	125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\228_CCB.D\228_CCB.D#
Date Acquired: Mar 24 2009 11:17 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.02913 ug/l	97.22	#VALUE!	
11 B	0.8583 ug/l	6.02	#VALUE!	
23 Na	-29.49 ug/l	0.24	#VALUE!	
24 Mg	4.292 ug/l	1.59	#VALUE!	
27 Al	1.236 ug/l	4.59	#VALUE!	
39 K	-2.555 ug/l	52.64	#VALUE!	
40 Ca	4.098 ug/l	1.40	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.04468 ug/l	47.67	#VALUE!	
51 V	0.03077 ug/l	31.82	#VALUE!	
52 Cr	0.0291 ug/l	4.22	#VALUE!	
55 Mn	0.2818 ug/l	93.22	#VALUE!	
56 Fe	4.714 ug/l	0.52	#VALUE!	
59 Co	0.02431 ug/l	94.57	#VALUE!	
60 Ni	-0.01308 ug/l	60.93	#VALUE!	
63 Cu	0.004659 ug/l	186.59	#VALUE!	
65 Cu	0.0155 ug/l	55.70	#VALUE!	
65 Cu	-0.01395 ug/l	164.66	#VALUE!	
66 Zn	-0.1157 ug/l	35.39	#VALUE!	
68 Zn	-0.0965 ug/l	5.72	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.05023 ug/l	7.70	#VALUE!	
78 Se	0.08258 ug/l	19.97	#VALUE!	
88 Sr	0.03513 ug/l	99.52	#VALUE!	
90 Zr	0.721 ug/l	35.84	#VALUE!	
91 Zr	0.7261 ug/l	35.13	#VALUE!	
95 Mo	0.1307 ug/l	36.65	#VALUE!	
107 Ag	0.03225 ug/l	69.21	#VALUE!	
111 Cd	0.03404 ug/l	82.08	#VALUE!	
118 Sn	0.09704 ug/l	36.21	#VALUE!	
121 Sb	0.05321 ug/l	56.85	#VALUE!	
137 Ba	0.0348 ug/l	95.37	#VALUE!	
201 Hg	0.03815 ug/l	10.60	#VALUE!	
202 Hg	0.04117 ug/l	12.96	#VALUE!	
203 Tl	0.041 ug/l	31.17	#VALUE!	
205 Tl	0.04181 ug/l	7.68	#VALUE!	
208 Pb	0.02612 ug/l	87.98	#VALUE!	
232 Th	0.07809 ug/l	28.95	#VALUE!	
238 U	0.03127 ug/l	79.82	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	489003.44	2.31	643928.69	75.9	60 - 125	
45 Sc	257112.69	0.60	329114.28	78.1	60 - 125	
45 Sc	696892.31	0.78	872836.06	79.8	60 - 125	
74 Ge	98648.29	1.24	122381.69	80.6	60 - 125	
74 Ge	17806.19	2.70	21667.30	82.2	60 - 125	
74 Ge	175379.56	0.29	224459.19	78.1	60 - 125	
89 Y	975587.19	1.27	1247149.90	78.2	60 - 125	
115 In	1082745.60	0.90	1396206.60	77.5	60 - 125	
159 Tb	1608920.80	0.82	2071474.10	77.7	60 - 125	
209 Bi	1020341.80	0.74	1349994.40	75.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\229SMPL.D\229SMPL.D#
Date Acquired: Mar 24 2009 11:24 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 21188-3
Misc Info: 3005 1/5
Vial Number: 3111
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.001248	0.001248	ug/l	124.44	#VALUE!	
11 B	# 3	82.86	82.86	ug/l	1.57	#VALUE!	
23 Na	# 1	25140	25140	ug/l	1.34	#VALUE!	
24 Mg	# 1	9357	9357	ug/l	0.69	#VALUE!	
27 Al	# 1	15.06	15.06	ug/l	2.93	#VALUE!	
39 K	# 2	16210	16210	ug/l	1.40	#VALUE!	
40 Ca	# 1	23790	23790	ug/l	0.54	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	--------	#VALUE!	
47 Ti	# 3	1.716	1.716	ug/l	5.08	#VALUE!	
51 V	# 2	1.019	1.019	ug/l	3.40	#VALUE!	
52 Cr	# 2	0.6575	0.6575	ug/l	2.67	#VALUE!	
55 Mn	# 3	30.09	30.09	ug/l	1.17	#VALUE!	
56 Fe	# 1	1458	1458	ug/l	0.89	#VALUE!	
59 Co	# 3	0.6812	0.6812	ug/l	0.94	#VALUE!	
60 Ni	# 2	1.641	1.641	ug/l	3.79	#VALUE!	
63 Cu	# 2	1.253	1.253	ug/l	1.69	#VALUE!	
65 Cu	# 2	1.234	1.234	ug/l	1.05	#VALUE!	
65 Cu	# 3	1.314	1.314	ug/l	4.59	#VALUE!	
66 Zn	# 3	5.835	5.835	ug/l	3.55	#VALUE!	
68 Zn	# 3	5.593	5.593	ug/l	3.81	#VALUE!	
70 Ge	# 2	----	---------	ug/l	--------	#VALUE!	
75 As	# 2	1.377	1.377	ug/l	2.47	#VALUE!	
78 Se	# 1	0.2222	0.2222	ug/l	10.65	#VALUE!	
88 Sr	# 3	163.6	163.6	ug/l	1.20	#VALUE!	
90 Zr	# 3	4.541	4.541	ug/l	9.83	#VALUE!	
91 Zr	# 3	4.404	4.404	ug/l	10.06	#VALUE!	
95 Mo	# 3	0.8117	0.8117	ug/l	2.65	#VALUE!	
107 Ag	# 3	0.01678	0.01678	ug/l	6.40	#VALUE!	
111 Cd	# 3	0.01851	0.01851	ug/l	20.23	#VALUE!	
118 Sn	# 3	0.118	0.118	ug/l	9.67	#VALUE!	
121 Sb	# 3	0.1095	0.1095	ug/l	1.62	#VALUE!	
137 Ba	# 3	2.095	2.095	ug/l	1.73	#VALUE!	
201 Hg	# 3	0.008756	0.008756	ug/l	10.03	#VALUE!	
202 Hg	# 3	0.009303	0.009303	ug/l	16.12	#VALUE!	
203 Tl	# 3	0.01446	0.01446	ug/l	7.39	#VALUE!	
205 Tl	# 3	0.01534	0.01534	ug/l	5.55	#VALUE!	
208 Pb	# 3	0.1272	0.1272	ug/l	1.99	#VALUE!	
232 Th	# 3	0.05225	0.05225	ug/l	8.02	#VALUE!	
238 U	# 3	0.1766	0.1766	ug/l	1.93	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	475941.75	0.39	643928.69	73.9	60 - 125	
45 Sc	# 1	242113.83	0.20	329114.28	73.6	60 - 125	
45 Sc	# 3	689599.19	0.88	872836.06	79.0	60 - 125	
74 Ge	# 1	90052.63	0.90	122381.69	73.6	60 - 125	
74 Ge	# 2	16643.49	2.53	21667.30	76.8	60 - 125	
74 Ge	# 3	169408.59	1.12	224459.19	75.5	60 - 125	
89 Y	# 3	956143.63	1.92	1247149.90	76.7	60 - 125	
115 In	# 3	1032531.30	1.68	1396206.60	74.0	60 - 125	
159 Tb	# 3	1586316.30	1.26	2071474.10	76.6	60 - 125	
209 Bi	# 3	953347.56	0.29	1349994.40	70.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\230SMPL.D\230SMPL.D#
Date Acquired: Mar 24 2009 11:31 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 21189-2
Misc Info: 3005 1/5
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.002945	0.002945	ug/l	78.00	#VALUE!	
11 B	# 3	6.429	6.429	ug/l	2.36	#VALUE!	
23 Na	# 1	1546	1546	ug/l	0.32	#VALUE!	
24 Mg	# 1	397.4	397.4	ug/l	0.52	#VALUE!	
27 Al	# 1	120.4	120.4	ug/l	2.60	#VALUE!	
39 K	# 2	-1.245	-1.245	ug/l	123.37	#VALUE!	
40 Ca	# 1	345	345	ug/l	0.44	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	1.745	1.745	ug/l	17.28	#VALUE!	
51 V	# 2	0.2503	0.2503	ug/l	14.43	#VALUE!	
52 Cr	# 2	0.2276	0.2276	ug/l	5.36	#VALUE!	
55 Mn	# 3	0.1153	0.1153	ug/l	2.86	#VALUE!	
56 Fe	# 1	85.83	85.83	ug/l	1.24	#VALUE!	
59 Co	# 3	0.01959	0.01959	ug/l	20.76	#VALUE!	
60 Ni	# 2	0.1083	0.1083	ug/l	2.02	#VALUE!	
63 Cu	# 2	0.05957	0.05957	ug/l	6.74	#VALUE!	
65 Cu	# 2	0.0683	0.0683	ug/l	21.20	#VALUE!	
65 Cu	# 3	0.05239	0.05239	ug/l	27.41	#VALUE!	
66 Zn	# 3	0.324	0.324	ug/l	10.69	#VALUE!	
68 Zn	# 3	0.2674	0.2674	ug/l	31.18	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.2131	0.2131	ug/l	3.32	#VALUE!	
78 Se	# 1	0.06499	0.06499	ug/l	16.31	#VALUE!	
88 Sr	# 3	3.46	3.46	ug/l	2.39	#VALUE!	
90 Zr	# 3	3.091	3.091	ug/l	6.51	#VALUE!	
91 Zr	# 3	2.996	2.996	ug/l	8.09	#VALUE!	
95 Mo	# 3	0.04402	0.04402	ug/l	33.19	#VALUE!	
107 Ag	# 3	0.01033	0.01033	ug/l	9.52	#VALUE!	
111 Cd	# 3	0.008394	0.008394	ug/l	20.80	#VALUE!	
118 Sn	# 3	0.03948	0.03948	ug/l	1.07	#VALUE!	
121 Sb	# 3	0.02928	0.02928	ug/l	14.88	#VALUE!	
137 Ba	# 3	0.3281	0.3281	ug/l	8.56	#VALUE!	
201 Hg	# 3	0.003554	0.003554	ug/l	49.63	#VALUE!	
202 Hg	# 3	0.003624	0.003624	ug/l	53.15	#VALUE!	
203 Tl	# 3	0.009682	0.009682	ug/l	4.21	#VALUE!	
205 Tl	# 3	0.009239	0.009239	ug/l	6.91	#VALUE!	
208 Pb	# 3	0.05955	0.05955	ug/l	7.98	#VALUE!	
232 Th	# 3	0.03723	0.03723	ug/l	6.42	#VALUE!	
238 U	# 3	0.004694	0.004694	ug/l	30.23	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	489085.66	0.88	643928.69	76.0	60 - 125	
45 Sc	# 1	244126.80	0.60	329114.28	74.2	60 - 125	
45 Sc	# 3	661069.63	2.60	872836.06	75.7	60 - 125	
74 Ge	# 1	92089.47	0.89	122381.69	75.2	60 - 125	
74 Ge	# 2	16461.05	2.74	21667.30	76.0	60 - 125	
74 Ge	# 3	166790.39	2.11	224459.19	74.3	60 - 125	
89 Y	# 3	932653.19	2.01	1247149.90	74.8	60 - 125	
115 In	# 3	1040783.80	1.95	1396206.60	74.5	60 - 125	
159 Tb	# 3	1580956.60	1.74	2071474.10	76.3	60 - 125	
209 Bi	# 3	1024885.70	3.18	1349994.40	75.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\231SMPL.D\231SMPL.D#
Date Acquired:	Mar 24 2009 11:37 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	21189-3
Misc Info:	3005 1/5
Vial Number:	3201
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.002098	0.002098	ug/l	97.00	#VALUE!	
11	B	# 3	4.183	4.183	ug/l	2.28	#VALUE!	
23	Na	# 1	1469	1469	ug/l	0.86	#VALUE!	
24	Mg	# 1	150.7	150.7	ug/l	0.25	#VALUE!	
27	Al	# 1	151	151	ug/l	0.74	#VALUE!	
39	K	# 2	46.75	46.75	ug/l	1.08	#VALUE!	
40	Ca	# 1	166.2	166.2	ug/l	0.99	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.8283	0.8283	ug/l	11.35	#VALUE!	
51	V	# 2	0.2827	0.2827	ug/l	7.45	#VALUE!	
52	Cr	# 2	0.2029	0.2029	ug/l	5.94	#VALUE!	
55	Mn	# 3	0.5984	0.5984	ug/l	2.82	#VALUE!	
56	Fe	# 1	116.4	116.4	ug/l	0.95	#VALUE!	
59	Co	# 3	0.01556	0.01556	ug/l	18.61	#VALUE!	
60	Ni	# 2	0.1271	0.1271	ug/l	12.14	#VALUE!	
63	Cu	# 2	0.01822	0.01822	ug/l	67.18	#VALUE!	
65	Cu	# 2	0.0286	0.0286	ug/l	45.73	#VALUE!	
65	Cu	# 3	0.01067	0.01067	ug/l	149.11	#VALUE!	
66	Zn	# 3	0.3897	0.3897	ug/l	9.97	#VALUE!	
68	Zn	# 3	0.4368	0.4368	ug/l	9.38	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	0.05797	0.05797	ug/l	9.37	#VALUE!	
78	Se	# 1	0.03372	0.03372	ug/l	12.65	#VALUE!	
88	Sr	# 3	1.086	1.086	ug/l	0.60	#VALUE!	
90	Zr	# 3	0.3237	0.3237	ug/l	4.35	#VALUE!	
91	Zr	# 3	0.3512	0.3512	ug/l	8.28	#VALUE!	
95	Mo	# 3	0.03287	0.03287	ug/l	9.40	#VALUE!	
107	Ag	# 3	0.002268	0.002268	ug/l	50.71	#VALUE!	
111	Cd	# 3	0.003901	0.003901	ug/l	66.68	#VALUE!	
118	Sn	# 3	0.02	0.02	ug/l	43.12	#VALUE!	
121	Sb	# 3	0.03341	0.03341	ug/l	7.13	#VALUE!	
137	Ba	# 3	0.8047	0.8047	ug/l	4.95	#VALUE!	
201	Hg	# 3	0.002454	0.002454	ug/l	81.91	#VALUE!	
202	Hg	# 3	0.0059	0.0059	ug/l	13.85	#VALUE!	
203	Tl	# 3	0.005556	0.005556	ug/l	29.36	#VALUE!	
205	Tl	# 3	0.005373	0.005373	ug/l	23.71	#VALUE!	
208	Pb	# 3	0.05707	0.05707	ug/l	6.58	#VALUE!	
232	Th	# 3	0.04684	0.04684	ug/l	1.33	#VALUE!	
238	U	# 3	0.00693	0.00693	ug/l	20.40	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	483463.22	1.27	643928.69	75.1	60 - 125	
45	Sc	# 1	242230.86	0.56	329114.28	73.6	60 - 125	
45	Sc	# 3	664251.13	0.81	872836.06	76.1	60 - 125	
74	Ge	# 1	92235.06	1.06	122381.69	75.4	60 - 125	
74	Ge	# 2	16801.12	1.34	21667.30	77.5	60 - 125	
74	Ge	# 3	167526.27	0.77	224459.19	74.6	60 - 125	
89	Y	# 3	937905.69	1.16	1247149.90	75.2	60 - 125	
115	In	# 3	1044947.70	0.81	1396206.60	74.8	60 - 125	
159	Tb	# 3	1579573.90	0.81	2071474.10	76.3	60 - 125	
209	Bi	# 3	1013671.10	0.90	1349994.40	75.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed

0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass

ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\232SMPL.D\232SMPL.D#
Date Acquired: Mar 24 2009 11:44 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 21189-4
Misc Info: 3005 1/5
Vial Number: 3202
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.002542	0.002542	ug/l	27.35	#VALUE!	
11 B	# 3	1.539	1.539	ug/l	0.36	#VALUE!	
23 Na	# 1	1133	1133	ug/l	0.19	#VALUE!	
24 Mg	# 1	68.43	68.43	ug/l	0.11	#VALUE!	
27 Al	# 1	361.4	361.4	ug/l	1.34	#VALUE!	
39 K	# 2	4.54	4.54	ug/l	41.34	#VALUE!	
40 Ca	# 1	104.9	104.9	ug/l	1.06	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.5517	0.5517	ug/l	12.25	#VALUE!	
51 V	# 2	0.5626	0.5626	ug/l	6.45	#VALUE!	
52 Cr	# 2	0.2668	0.2668	ug/l	9.93	#VALUE!	
55 Mn	# 3	0.4065	0.4065	ug/l	1.33	#VALUE!	
56 Fe	# 1	258.7	258.7	ug/l	0.61	#VALUE!	
59 Co	# 3	0.03494	0.03494	ug/l	5.21	#VALUE!	
60 Ni	# 2	0.2458	0.2458	ug/l	8.67	#VALUE!	
63 Cu	# 2	-0.01848	-0.01848	ug/l	40.37	#VALUE!	
65 Cu	# 2	-0.01591	-0.01591	ug/l	15.61	#VALUE!	
65 Cu	# 3	-0.01674	-0.01674	ug/l	38.89	#VALUE!	
66 Zn	# 3	0.4574	0.4574	ug/l	7.74	#VALUE!	
68 Zn	# 3	0.5234	0.5234	ug/l	5.74	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.1146	0.1146	ug/l	15.49	#VALUE!	
78 Se	# 1	0.03154	0.03154	ug/l	36.53	#VALUE!	
88 Sr	# 3	0.8351	0.8351	ug/l	2.40	#VALUE!	
90 Zr	# 3	0.7691	0.7691	ug/l	2.80	#VALUE!	
91 Zr	# 3	0.7474	0.7474	ug/l	1.82	#VALUE!	
95 Mo	# 3	0.03325	0.03325	ug/l	20.25	#VALUE!	
107 Ag	# 3	0.003607	0.003607	ug/l	23.40	#VALUE!	
111 Cd	# 3	0.006085	0.006085	ug/l	16.63	#VALUE!	
118 Sn	# 3	0.01579	0.01579	ug/l	14.73	#VALUE!	
121 Sb	# 3	0.01195	0.01195	ug/l	14.59	#VALUE!	
137 Ba	# 3	1.224	1.224	ug/l	2.42	#VALUE!	
201 Hg	# 3	0.001612	0.001612	ug/l	74.07	#VALUE!	
202 Hg	# 3	0.005018	0.005018	ug/l	30.13	#VALUE!	
203 Tl	# 3	0.004894	0.004894	ug/l	24.36	#VALUE!	
205 Tl	# 3	0.003874	0.003874	ug/l	38.00	#VALUE!	
208 Pb	# 3	0.01302	0.01302	ug/l	8.76	#VALUE!	
232 Th	# 3	0.05103	0.05103	ug/l	2.81	#VALUE!	
238 U	# 3	0.009832	0.009832	ug/l	23.08	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	481818.31	2.33	643928.69	74.8	60 - 125	
45 Sc	# 1	243697.72	0.83	329114.28	74.0	60 - 125	
45 Sc	# 3	668955.13	1.10	872836.06	76.6	60 - 125	
74 Ge	# 1	91351.39	0.62	122381.69	74.6	60 - 125	
74 Ge	# 2	16883.46	2.38	21667.30	77.9	60 - 125	
74 Ge	# 3	166304.66	1.33	224459.19	74.1	60 - 125	
89 Y	# 3	941108.75	0.47	1247149.90	75.5	60 - 125	
115 In	# 3	1052608.90	1.22	1396206.60	75.4	60 - 125	
159 Tb	# 3	1601832.40	1.65	2071474.10	77.3	60 - 125	
209 Bi	# 3	1011692.10	1.11	1349994.40	74.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\233SMPL.D\233SMPL.D#
Date Acquired: Mar 24 2009 11:51 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 28254-1
Misc Info: 3005 1/5
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.002066	0.002066	ug/l	132.24	#VALUE!	
11 B	# 3	4.23	4.23	ug/l	0.63	#VALUE!	
23 Na	# 1	6099	6099	ug/l	0.95	#VALUE!	
24 Mg	# 1	5728	5728	ug/l	1.07	#VALUE!	
27 Al	# 1	4.743	4.743	ug/l	0.57	#VALUE!	
39 K	# 2	288.1	288.1	ug/l	0.50	#VALUE!	
40 Ca	# 1	11930	11930	ug/l	0.43	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.4243	0.4243	ug/l	17.58	#VALUE!	
51 V	# 2	0.2672	0.2672	ug/l	4.40	#VALUE!	
52 Cr	# 2	0.1693	0.1693	ug/l	16.16	#VALUE!	
55 Mn	# 3	6.864	6.864	ug/l	0.88	#VALUE!	
56 Fe	# 1	558	558	ug/l	0.30	#VALUE!	
59 Co	# 3	0.02195	0.02195	ug/l	9.58	#VALUE!	
60 Ni	# 2	0.06377	0.06377	ug/l	22.50	#VALUE!	
63 Cu	# 2	0.1128	0.1128	ug/l	13.07	#VALUE!	
65 Cu	# 2	0.1394	0.1394	ug/l	8.98	#VALUE!	
65 Cu	# 3	0.1388	0.1388	ug/l	22.16	#VALUE!	
66 Zn	# 3	0.7393	0.7393	ug/l	5.51	#VALUE!	
68 Zn	# 3	0.833	0.833	ug/l	13.35	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.04839	0.04839	ug/l	26.72	#VALUE!	
78 Se	# 1	0.02906	0.02906	ug/l	28.56	#VALUE!	
88 Sr	# 3	19.23	19.23	ug/l	1.02	#VALUE!	
90 Zr	# 3	0.318	0.318	ug/l	2.63	#VALUE!	
91 Zr	# 3	0.3233	0.3233	ug/l	8.54	#VALUE!	
95 Mo	# 3	0.05651	0.05651	ug/l	9.00	#VALUE!	
107 Ag	# 3	0.002279	0.002279	ug/l	60.69	#VALUE!	
111 Cd	# 3	0.001067	0.001067	ug/l	90.26	#VALUE!	
118 Sn	# 3	0.02849	0.02849	ug/l	21.99	#VALUE!	
121 Sb	# 3	0.01087	0.01087	ug/l	10.00	#VALUE!	
137 Ba	# 3	2.266	2.266	ug/l	1.99	#VALUE!	
201 Hg	# 3	0.001005	0.001005	ug/l	192.84	#VALUE!	
202 Hg	# 3	0.004091	0.004091	ug/l	6.54	#VALUE!	
203 Tl	# 3	0.0009543	0.0009543	ug/l	65.17	#VALUE!	
205 Tl	# 3	0.002685	0.002685	ug/l	17.28	#VALUE!	
208 Pb	# 3	-0.0009646	-0.0009646	ug/l	32.06	#VALUE!	
232 Th	# 3	0.01531	0.01531	ug/l	10.35	#VALUE!	
238 U	# 3	0.004796	0.004796	ug/l	30.34	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	492737.19	1.44	643928.69	76.5	60 - 125	
45 Sc	# 1	243685.56	0.28	329114.28	74.0	60 - 125	
45 Sc	# 3	678551.00	1.12	872836.06	77.7	60 - 125	
74 Ge	# 1	91780.37	0.17	122381.69	75.0	60 - 125	
74 Ge	# 2	16777.01	2.08	21667.30	77.4	60 - 125	
74 Ge	# 3	169590.20	0.72	224459.19	75.6	60 - 125	
89 Y	# 3	949430.38	1.72	1247149.90	76.1	60 - 125	
115 In	# 3	1043297.60	0.84	1396206.60	74.7	60 - 125	
159 Tb	# 3	1596624.40	0.75	2071474.10	77.1	60 - 125	
209 Bi	# 3	993229.06	1.27	1349994.40	73.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\234SMPL.D\234SMPL.D#
Date Acquired:	Mar 24 2009 11:58 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	28254-2
Misc Info:	3005 1/5
Vial Number:	3204
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.0002602	0.0002602	ug/l	479.25	#VALUE!	
11 B	# 3	31.03	31.03	ug/l	2.12	#VALUE!	
23 Na	# 1	7116	7116	ug/l	0.51	#VALUE!	
24 Mg	# 1	4078	4078	ug/l	0.81	#VALUE!	
27 Al	# 1	12.21	12.21	ug/l	2.14	#VALUE!	
39 K	# 2	280.6	280.6	ug/l	1.08	#VALUE!	
40 Ca	# 1	8639	8639	ug/l	0.24	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.6689	0.6689	ug/l	5.91	#VALUE!	
51 V	# 2	0.4638	0.4638	ug/l	1.98	#VALUE!	
52 Cr	# 2	0.2087	0.2087	ug/l	2.84	#VALUE!	
55 Mn	# 3	4.773	4.773	ug/l	0.41	#VALUE!	
56 Fe	# 1	193.5	193.5	ug/l	0.36	#VALUE!	
59 Co	# 3	0.01185	0.01185	ug/l	7.25	#VALUE!	
60 Ni	# 2	0.0446	0.0446	ug/l	41.70	#VALUE!	
63 Cu	# 2	-0.009357	-0.009357	ug/l	110.93	#VALUE!	
65 Cu	# 2	-0.0006906	-0.0006906	ug/l	1988.10	#VALUE!	
65 Cu	# 3	0.02367	0.02367	ug/l	66.79	#VALUE!	
66 Zn	# 3	0.6757	0.6757	ug/l	6.80	#VALUE!	
68 Zn	# 3	0.6974	0.6974	ug/l	4.71	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.02829	0.02829	ug/l	60.48	#VALUE!	
78 Se	# 1	0.02105	0.02105	ug/l	32.96	#VALUE!	
88 Sr	# 3	17.65	17.65	ug/l	1.12	#VALUE!	
90 Zr	# 3	0.2502	0.2502	ug/l	1.31	#VALUE!	
91 Zr	# 3	0.2287	0.2287	ug/l	11.34	#VALUE!	
95 Mo	# 3	0.03075	0.03075	ug/l	30.86	#VALUE!	
107 Ag	# 3	0.001928	0.001928	ug/l	115.30	#VALUE!	
111 Cd	# 3	0.001617	0.001617	ug/l	0.53	#VALUE!	
118 Sn	# 3	0.009425	0.009425	ug/l	53.59	#VALUE!	
121 Sb	# 3	0.008531	0.008531	ug/l	15.65	#VALUE!	
137 Ba	# 3	1.963	1.963	ug/l	2.56	#VALUE!	
201 Hg	# 3	0.001881	0.001881	ug/l	137.85	#VALUE!	
202 Hg	# 3	0.004239	0.004239	ug/l	32.77	#VALUE!	
203 Tl	# 3	0.0006996	0.0006996	ug/l	149.94	#VALUE!	
205 Tl	# 3	-0.0007477	-0.0007477	ug/l	125.50	#VALUE!	
208 Pb	# 3	0.001044	0.001044	ug/l	110.44	#VALUE!	
232 Th	# 3	0.01319	0.01319	ug/l	11.99	#VALUE!	
238 U	# 3	0.007309	0.007309	ug/l	5.49	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	503650.78	2.04	643928.69	78.2	60 - 125	
45 Sc	# 1	248982.73	0.64	329114.28	75.7	60 - 125	
45 Sc	# 3	687868.56	0.94	872836.06	78.8	60 - 125	
74 Ge	# 1	92024.27	0.95	122381.69	75.2	60 - 125	
74 Ge	# 2	16978.41	1.21	21667.30	78.4	60 - 125	
74 Ge	# 3	167803.45	1.20	224459.19	74.8	60 - 125	
89 Y	# 3	947124.88	1.49	1247149.90	75.9	60 - 125	
115 In	# 3	1066549.60	0.03	1396206.60	76.4	60 - 125	
159 Tb	# 3	1626411.00	1.21	2071474.10	78.5	60 - 125	
209 Bi	# 3	1006754.60	0.83	1349994.40	74.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\235SMPL.D\235SMPL.D#
Date Acquired: Mar 25 2009 12:04 am
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 28254-3
Misc Info: 3005 1/5
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.000586	-0.000586	ug/l	121.16	#VALUE!	
11 B	# 3	18.89	18.89	ug/l	0.05	#VALUE!	
23 Na	# 1	3940	3940	ug/l	0.86	#VALUE!	
24 Mg	# 1	4559	4559	ug/l	0.13	#VALUE!	
27 Al	# 1	4.399	4.399	ug/l	4.56	#VALUE!	
39 K	# 2	395.6	395.6	ug/l	1.47	#VALUE!	
40 Ca	# 1	15890	15890	ug/l	0.57	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.7749	0.7749	ug/l	1.73	#VALUE!	
51 V	# 2	1.083	1.083	ug/l	6.14	#VALUE!	
52 Cr	# 2	0.1257	0.1257	ug/l	6.81	#VALUE!	
55 Mn	# 3	18.71	18.71	ug/l	1.33	#VALUE!	
56 Fe	# 1	1991	1991	ug/l	0.87	#VALUE!	
59 Co	# 3	0.02186	0.02186	ug/l	12.90	#VALUE!	
60 Ni	# 2	0.05823	0.05823	ug/l	35.43	#VALUE!	
63 Cu	# 2	0.00154	0.00154	ug/l	317.01	#VALUE!	
65 Cu	# 2	0.008389	0.008389	ug/l	167.00	#VALUE!	
65 Cu	# 3	0.05931	0.05931	ug/l	21.55	#VALUE!	
66 Zn	# 3	0.5361	0.5361	ug/l	7.72	#VALUE!	
68 Zn	# 3	0.5118	0.5118	ug/l	8.14	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.04966	0.04966	ug/l	22.05	#VALUE!	
78 Se	# 1	0.008545	0.008545	ug/l	34.49	#VALUE!	
88 Sr	# 3	30.05	30.05	ug/l	0.91	#VALUE!	
90 Zr	# 3	0.2128	0.2128	ug/l	2.56	#VALUE!	
91 Zr	# 3	0.2197	0.2197	ug/l	10.93	#VALUE!	
95 Mo	# 3	0.02718	0.02718	ug/l	25.84	#VALUE!	
107 Ag	# 3	0.00217	0.00217	ug/l	59.08	#VALUE!	
111 Cd	# 3	0.004766	0.004766	ug/l	33.13	#VALUE!	
118 Sn	# 3	0.01754	0.01754	ug/l	28.32	#VALUE!	
121 Sb	# 3	0.00687	0.00687	ug/l	15.85	#VALUE!	
137 Ba	# 3	0.9576	0.9576	ug/l	4.48	#VALUE!	
201 Hg	# 3	0.002011	0.002011	ug/l	192.39	#VALUE!	
202 Hg	# 3	0.003868	0.003868	ug/l	15.97	#VALUE!	
203 Tl	# 3	-0.0008412	-0.0008412	ug/l	49.13	#VALUE!	
205 Tl	# 3	-0.0005287	-0.0005287	ug/l	233.40	#VALUE!	
208 Pb	# 3	0.004911	0.004911	ug/l	21.28	#VALUE!	
232 Th	# 3	0.008951	0.008951	ug/l	14.13	#VALUE!	
238 U	# 3	0.001433	0.001433	ug/l	30.09	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	520683.16	0.89	643928.69	80.9	60 - 125	
45 Sc	# 1	252362.58	0.88	329114.28	76.7	60 - 125	
45 Sc	# 3	721263.44	1.14	872836.06	82.6	60 - 125	
74 Ge	# 1	93530.97	0.96	122381.69	76.4	60 - 125	
74 Ge	# 2	17492.78	2.82	21667.30	80.7	60 - 125	
74 Ge	# 3	177438.97	1.27	224459.19	79.1	60 - 125	
89 Y	# 3	1006324.40	1.34	1247149.90	80.7	60 - 125	
115 In	# 3	1097937.60	0.60	1396206.60	78.6	60 - 125	
159 Tb	# 3	1673411.40	0.83	2071474.10	80.8	60 - 125	
209 Bi	# 3	1037349.90	1.31	1349994.40	76.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\236SMPL.D\236SMPL.D#
Date Acquired: Mar 25 2009 12:11 am
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 28254-4
Misc Info: 3005 1/5
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.003123	0.003123	ug/l	59.72	#VALUE!	
11 B	# 3	60.45	60.45	ug/l	0.88	#VALUE!	
23 Na	# 1	8485	8485	ug/l	1.81	#VALUE!	
24 Mg	# 1	1980	1980	ug/l	1.56	#VALUE!	
27 Al	# 1	56.17	56.17	ug/l	1.84	#VALUE!	
39 K	# 2	302.1	302.1	ug/l	0.43	#VALUE!	
40 Ca	# 1	7265	7265	ug/l	0.83	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.3944	0.3944	ug/l	8.16	#VALUE!	
51 V	# 2	7.541	7.541	ug/l	1.68	#VALUE!	
52 Cr	# 2	0.1065	0.1065	ug/l	16.38	#VALUE!	
55 Mn	# 3	8.854	8.854	ug/l	1.15	#VALUE!	
56 Fe	# 1	1726	1726	ug/l	1.59	#VALUE!	
59 Co	# 3	0.01221	0.01221	ug/l	28.81	#VALUE!	
60 Ni	# 2	0.1367	0.1367	ug/l	15.03	#VALUE!	
63 Cu	# 2	0.01408	0.01408	ug/l	44.23	#VALUE!	
65 Cu	# 2	0.02334	0.02334	ug/l	26.71	#VALUE!	
65 Cu	# 3	0.04901	0.04901	ug/l	34.79	#VALUE!	
66 Zn	# 3	2.073	2.073	ug/l	2.13	#VALUE!	
68 Zn	# 3	2.059	2.059	ug/l	3.06	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.02709	0.02709	ug/l	21.45	#VALUE!	
78 Se	# 1	0.01347	0.01347	ug/l	69.04	#VALUE!	
88 Sr	# 3	11.37	11.37	ug/l	1.58	#VALUE!	
90 Zr	# 3	0.2446	0.2446	ug/l	5.95	#VALUE!	
91 Zr	# 3	0.2523	0.2523	ug/l	4.82	#VALUE!	
95 Mo	# 3	0.03975	0.03975	ug/l	19.42	#VALUE!	
107 Ag	# 3	0.001127	0.001127	ug/l	18.90	#VALUE!	
111 Cd	# 3	0.01126	0.01126	ug/l	13.80	#VALUE!	
118 Sn	# 3	0.01697	0.01697	ug/l	33.71	#VALUE!	
121 Sb	# 3	0.005655	0.005655	ug/l	12.07	#VALUE!	
137 Ba	# 3	1.076	1.076	ug/l	3.97	#VALUE!	
201 Hg	# 3	0.0009184	0.0009184	ug/l	251.52	#VALUE!	
202 Hg	# 3	0.00364	0.00364	ug/l	30.66	#VALUE!	
203 Tl	# 3	0.0001327	0.0001327	ug/l	844.76	#VALUE!	
205 Tl	# 3	-0.0003205	-0.0003205	ug/l	69.27	#VALUE!	
208 Pb	# 3	0.001339	0.001339	ug/l	82.90	#VALUE!	
232 Th	# 3	0.008855	0.008855	ug/l	10.52	#VALUE!	
238 U	# 3	0.002846	0.002846	ug/l	23.79	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	517434.06	2.11	643928.69	80.4	60 - 125	
45 Sc	# 1	254613.11	1.20	329114.28	77.4	60 - 125	
45 Sc	# 3	713870.69	0.55	872036.06	81.8	60 - 125	
74 Ge	# 1	94252.97	0.67	122381.69	77.0	60 - 125	
74 Ge	# 2	17382.25	3.29	21667.30	80.2	60 - 125	
74 Ge	# 3	175741.64	1.19	224459.19	78.3	60 - 125	
89 Y	# 3	992596.44	1.81	1247149.90	79.6	60 - 125	
115 In	# 3	1086524.60	0.87	1396206.60	77.8	60 - 125	
159 Tb	# 3	1643526.30	1.36	2071474.10	79.3	60 - 125	
209 Bi	# 3	1030907.60	1.44	1349994.40	76.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\237SMPL.D\237SMPL.D#
Date Acquired:	Mar 25 2009 12:18 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	28254-5
Misc Info:	3005 1/5
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.0002971	0.0002971	ug/l	440.26	#VALUE!	
11 B	# 3	7.47	7.47	ug/l	1.41	#VALUE!	
23 Na	# 1	2922	2922	ug/l	0.26	#VALUE!	
24 Mg	# 1	8141	8141	ug/l	0.51	#VALUE!	
27 Al	# 1	4.86	4.86	ug/l	3.51	#VALUE!	
39 K	# 2	346	346	ug/l	2.00	#VALUE!	
40 Ca	# 1	16430	16430	ug/l	0.34	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.4747	0.4747	ug/l	5.79	#VALUE!	
51 V	# 2	1.476	1.476	ug/l	2.31	#VALUE!	
52 Cr	# 2	0.1733	0.1733	ug/l	5.94	#VALUE!	
55 Mn	# 3	4.166	4.166	ug/l	0.28	#VALUE!	
56 Fe	# 1	9.096	9.096	ug/l	0.62	#VALUE!	
59 Co	# 3	0.02343	0.02343	ug/l	9.32	#VALUE!	
60 Ni	# 2	0.04683	0.04683	ug/l	26.31	#VALUE!	
63 Cu	# 2	0.01273	0.01273	ug/l	43.83	#VALUE!	
65 Cu	# 2	0.01781	0.01781	ug/l	39.24	#VALUE!	
65 Cu	# 3	0.04607	0.04607	ug/l	45.02	#VALUE!	
66 Zn	# 3	0.336	0.336	ug/l	10.31	#VALUE!	
68 Zn	# 3	0.3778	0.3778	ug/l	8.01	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.03421	0.03421	ug/l	18.28	#VALUE!	
78 Se	# 1	0.005166	0.005166	ug/l	44.46	#VALUE!	
88 Sr	# 3	29.15	29.15	ug/l	0.91	#VALUE!	
90 Zr	# 3	0.1714	0.1714	ug/l	4.38	#VALUE!	
91 Zr	# 3	0.1691	0.1691	ug/l	14.65	#VALUE!	
95 Mo	# 3	0.02901	0.02901	ug/l	32.70	#VALUE!	
107 Ag	# 3	0.003087	0.003087	ug/l	43.60	#VALUE!	
111 Cd	# 3	0.006206	0.006206	ug/l	78.88	#VALUE!	
118 Sn	# 3	0.01187	0.01187	ug/l	17.94	#VALUE!	
121 Sb	# 3	0.006151	0.006151	ug/l	25.56	#VALUE!	
137 Ba	# 3	0.9129	0.9129	ug/l	6.95	#VALUE!	
201 Hg	# 3	0.0002593	0.0002593	ug/l	747.40	#VALUE!	
202 Hg	# 3	0.003698	0.003698	ug/l	36.94	#VALUE!	
203 Tl	# 3	-0.0005608	-0.0005608	ug/l	219.86	#VALUE!	
205 Tl	# 3	-0.002196	-0.002196	ug/l	56.79	#VALUE!	
208 Pb	# 3	0.02876	0.02876	ug/l	1.23	#VALUE!	
232 Th	# 3	0.006	0.006	ug/l	11.94	#VALUE!	
238 U	# 3	0.004614	0.004614	ug/l	10.24	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	499520.63	1.75	643928.69	77.6	60 - 125	
45 Sc	# 1	250353.06	0.76	329114.28	76.1	60 - 125	
45 Sc	# 3	681510.56	1.17	872836.06	78.1	60 - 125	
74 Ge	# 1	92415.76	0.53	122381.69	75.5	60 - 125	
74 Ge	# 2	16751.41	1.69	21667.30	77.3	60 - 125	
74 Ge	# 3	167830.95	0.99	224459.19	74.8	60 - 125	
89 Y	# 3	951021.13	1.09	1247149.90	76.3	60 - 125	
115 In	# 3	1030303.20	1.25	1396206.60	73.8	60 - 125	
159 Tb	# 3	1584369.90	1.13	2071474.10	76.5	60 - 125	
209 Bi	# 3	976021.31	0.87	1349994.40	72.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\238SMPL.D\238SMPL.D#
Date Acquired:	Mar 25 2009 12:25 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	28254-6
Misc Info:	3005 1/5
Vial Number:	3208
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	-0.0001502	-0.0001502	ug/l	975.37	#VALUE!	
11 B	# 3	11.09	11.09	ug/l	1.05	#VALUE!	
23 Na	# 1	4219	4219	ug/l	0.28	#VALUE!	
24 Mg	# 1	8894	8894	ug/l	0.91	#VALUE!	
27 Al	# 1	4.05	4.05	ug/l	2.13	#VALUE!	
39 K	# 2	333.1	333.1	ug/l	0.40	#VALUE!	
40 Ca	# 1	18700	18700	ug/l	0.45	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.4449	0.4449	ug/l	4.29	#VALUE!	
51 V	# 2	0.2289	0.2289	ug/l	8.47	#VALUE!	
52 Cr	# 2	0.2003	0.2003	ug/l	4.12	#VALUE!	
55 Mn	# 3	3.616	3.616	ug/l	1.02	#VALUE!	
56 Fe	# 1	17.21	17.21	ug/l	0.83	#VALUE!	
59 Co	# 3	0.02164	0.02164	ug/l	9.01	#VALUE!	
60 Ni	# 2	0.02485	0.02485	ug/l	41.29	#VALUE!	
63 Cu	# 2	-0.02861	-0.02861	ug/l	20.13	#VALUE!	
65 Cu	# 2	-0.02309	-0.02309	ug/l	1.65	#VALUE!	
65 Cu	# 3	0.0402	0.0402	ug/l	9.67	#VALUE!	
66 Zn	# 3	0.1464	0.1464	ug/l	19.56	#VALUE!	
68 Zn	# 3	0.1815	0.1815	ug/l	6.46	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.03705	0.03705	ug/l	39.70	#VALUE!	
78 Se	# 1	0.009061	0.009061	ug/l	103.98	#VALUE!	
88 Sr	# 3	222	222	ug/l	0.50	#VALUE!	
90 Zr	# 3	0.2641	0.2641	ug/l	2.73	#VALUE!	
91 Zr	# 3	0.2673	0.2673	ug/l	2.77	#VALUE!	
95 Mo	# 3	0.02631	0.02631	ug/l	14.37	#VALUE!	
107 Ag	# 3	0.001965	0.001965	ug/l	61.88	#VALUE!	
111 Cd	# 3	0.001115	0.001115	ug/l	88.19	#VALUE!	
118 Sn	# 3	0.007505	0.007505	ug/l	47.86	#VALUE!	
121 Sb	# 3	0.004791	0.004791	ug/l	31.35	#VALUE!	
137 Ba	# 3	1.629	1.629	ug/l	3.52	#VALUE!	
201 Hg	# 3	0.0004296	0.0004296	ug/l	718.11	#VALUE!	
202 Hg	# 3	0.00443	0.00443	ug/l	36.89	#VALUE!	
203 Tl	# 3	-0.002228	-0.002228	ug/l	15.83	#VALUE!	
205 Tl	# 3	-0.002218	-0.002218	ug/l	42.54	#VALUE!	
208 Pb	# 3	-0.00281	-0.00281	ug/l	43.20	#VALUE!	
232 Th	# 3	0.006455	0.006455	ug/l	10.62	#VALUE!	
238 U	# 3	0.009649	0.009649	ug/l	8.90	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	497305.78	1.81	643928.69	77.2	60 - 125	
45 Sc	# 1	246707.72	0.61	329114.28	75.0	60 - 125	
45 Sc	# 3	684987.31	1.84	872836.06	78.5	60 - 125	
74 Ge	# 1	90544.90	0.84	122381.69	74.0	60 - 125	
74 Ge	# 2	16725.46	3.03	21667.30	77.2	60 - 125	
74 Ge	# 3	166079.86	0.71	224459.19	74.0	60 - 125	
89 Y	# 3	934797.88	1.41	1247149.90	75.0	60 - 125	
115 In	# 3	1029254.30	1.62	1396206.60	73.7	60 - 125	
159 Tb	# 3	1570465.10	1.49	2071474.10	75.8	60 - 125	
209 Bi	# 3	966552.88	1.53	1349994.40	71.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\239_CCV.D\239_CCV.D#
Date Acquired: Mar 25 2009 12:32 am
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	52.41 ug/l	1.23	50.00	90 - 110	
11 B	# 3	90.1 ug/l	2.11	100.00	90 - 110	
23 Na	# 1	4840 ug/l	0.46	5000.00	90 - 110	
24 Mg	# 1	4910 ug/l	0.87	5000.00	90 - 110	
27 Al	# 1	495.5 ug/l	1.20	500.00	90 - 110	
39 K	# 2	4552 ug/l	0.71	5000.00	90 - 110	
40 Ca	# 1	4904 ug/l	1.18	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------	---	##### - #####	
47 Ti	# 3	50 ug/l	2.75	50.00	90 - 110	
51 V	# 2	48.82 ug/l	0.86	50.00	90 - 110	
52 Cr	# 2	48.15 ug/l	1.56	50.00	90 - 110	
55 Mn	# 3	474.5 ug/l	0.28	500.00	90 - 110	
56 Fe	# 1	4991 ug/l	0.65	5000.00	90 - 110	
59 Co	# 3	49.16 ug/l	1.10	50.00	90 - 110	
60 Ni	# 2	49.64 ug/l	2.19	50.00	90 - 110	
63 Cu	# 2	49.98 ug/l	1.73	50.00	90 - 110	
65 Cu	# 2	50.01 ug/l	1.57	50.00	90 - 110	
65 Cu	# 3	50.62 ug/l	0.53	50.00	90 - 110	
66 Zn	# 3	48.35 ug/l	0.80	50.00	90 - 110	
68 Zn	# 3	48.18 ug/l	0.82	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------	---	##### - #####	
75 As	# 2	50.37 ug/l	1.12	50.00	90 - 110	
78 Se	# 1	47.84 ug/l	0.33	50.00	90 - 110	
88 Sr	# 3	49.38 ug/l	0.31	50.00	90 - 110	
90 Zr	# 3	497.8 ug/l	0.62	500.00	90 - 110	
91 Zr	# 3	504.1 ug/l	0.44	500.00	90 - 110	
95 Mo	# 3	50.31 ug/l	0.28	50.00	90 - 110	
107 Ag	# 3	49.61 ug/l	0.65	50.00	90 - 110	
111 Cd	# 3	49.25 ug/l	0.20	50.00	90 - 110	
118 Sn	# 3	49.09 ug/l	0.05	50.00	90 - 110	
121 Sb	# 3	48.91 ug/l	0.33	50.00	90 - 110	
137 Ba	# 3	49.19 ug/l	0.98	50.00	90 - 110	
201 Hg	# 3	2.532 ug/l	0.95	2.50	90 - 110	
202 Hg	# 3	2.522 ug/l	1.57	2.50	90 - 110	
203 Tl	# 3	9.414 ug/l	0.58	10.00	90 - 110	
205 Tl	# 3	9.345 ug/l	0.75	10.00	90 - 110	
208 Pb	# 3	45.38 ug/l	0.54	50.00	90 - 110	
232 Th	# 3	48.76 ug/l	0.80	---	##### - #####	
238 U	# 3	47.57 ug/l	0.60	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	468977.44	2.22	643928.69	72.8	60 - 125	
45 Sc	# 1	251153.55	0.93	329114.28	76.3	60 - 125	
45 Sc	# 3	687371.63	0.85	872836.06	78.8	60 - 125	
74 Ge	# 1	94746.08	0.76	122381.69	77.4	60 - 125	
74 Ge	# 2	17397.83	2.82	21667.30	80.3	60 - 125	
74 Ge	# 3	170771.05	1.11	224459.19	76.1	60 - 125	
89 Y	# 3	958860.31	0.95	1247149.90	76.9	60 - 125	
115 In	# 3	1047617.60	0.95	1396206.60	75.0	60 - 125	
159 Tb	# 3	1567427.30	1.56	2071474.10	75.7	60 - 125	
209 Bi	# 3	960422.06	0.94	1349994.40	71.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\240_CCB.D\240_CCB.D#
Date Acquired: Mar 25 2009 12:38 am
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.006569 ug/l	46.72	#VALUE!	
11 B	0.8068 ug/l	13.75	#VALUE!	
23 Na	-32.29 ug/l	1.07	#VALUE!	
24 Mg	0.699 ug/l	11.56	#VALUE!	
27 Al	0.1705 ug/l	26.69	#VALUE!	
39 K	-7.869 ug/l	12.71	#VALUE!	
40 Ca	-0.07791 ug/l	44.91	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.02167 ug/l	44.26	#VALUE!	
51 V	-0.007718 ug/l	59.12	#VALUE!	
52 Cr	0.000343 ug/l	1703.50	#VALUE!	
55 Mn	0.03939 ug/l	14.43	#VALUE!	
56 Fe	1.168 ug/l	3.47	#VALUE!	
59 Co	0.0005704 ug/l	199.16	#VALUE!	
60 Ni	-0.0335 ug/l	19.02	#VALUE!	
63 Cu	-0.03392 ug/l	10.82	#VALUE!	
65 Cu	-0.02784 ug/l	24.37	#VALUE!	
65 Cu	-0.04634 ug/l	22.64	#VALUE!	
66 Zn	-0.1452 ug/l	9.75	#VALUE!	
68 Zn	-0.1637 ug/l	16.02	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.02214 ug/l	54.70	#VALUE!	
78 Se	0.06364 ug/l	25.64	#VALUE!	
88 Sr	0.002519 ug/l	30.73	#VALUE!	
90 Zr	0.4701 ug/l	3.01	#VALUE!	
91 Zr	0.4666 ug/l	11.10	#VALUE!	
95 Mo	0.102 ug/l	15.93	#VALUE!	
107 Ag	0.008763 ug/l	23.07	#VALUE!	
111 Cd	0.007029 ug/l	83.06	#VALUE!	
118 Sn	0.06442 ug/l	8.72	#VALUE!	
121 Sb	0.02661 ug/l	9.62	#VALUE!	
137 Ba	0.0005326 ug/l	311.68	#VALUE!	
201 Hg	0.03 ug/l	4.98	#VALUE!	
202 Hg	0.03245 ug/l	10.84	#VALUE!	
203 Tl	0.0319 ug/l	14.44	#VALUE!	
205 Tl	0.02643 ug/l	8.26	#VALUE!	
208 Pb	0.003864 ug/l	13.70	#VALUE!	
232 Th	0.05601 ug/l	5.80	#VALUE!	
238 U	0.008282 ug/l	18.10	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	479912.44	1.71	643928.69	74.5	60 - 125	
45 Sc	255700.77	0.56	329114.28	77.7	60 - 125	
45 Sc	689196.69	0.86	872836.06	79.0	60 - 125	
74 Ge	97045.55	1.29	122381.69	79.3	60 - 125	
74 Ge	18011.26	0.66	21667.30	83.1	60 - 125	
74 Ge	175024.78	1.17	224459.19	78.0	60 - 125	
89 Y	970143.00	1.48	1247149.90	77.8	60 - 125	
115 In	1072204.40	1.22	1396206.60	76.8	60 - 125	
159 Tb	1563597.10	0.53	2071474.10	75.5	60 - 125	
209 Bi	1001684.80	2.08	1349994.40	74.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\241SMPL.D\241SMPL.D#
Date Acquired:	Mar 25 2009 12:45 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	28254-7
Misc Info:	3005 1/5
Vial Number:	3209
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.006535	0.006535	ug/l	40.46	#VALUE!	
11 B	# 3	62.93	62.93	ug/l	0.74	#VALUE!	
23 Na	# 1	7741	7741	ug/l	0.69	#VALUE!	
24 Mg	# 1	4399	4399	ug/l	0.32	#VALUE!	
27 Al	# 1	35.22	35.22	ug/l	0.57	#VALUE!	
39 K	# 2	1099	1099	ug/l	0.77	#VALUE!	
40 Ca	# 1	13430	13430	ug/l	1.41	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.3111	0.3111	ug/l	20.84	#VALUE!	
51 V	# 2	0.3057	0.3057	ug/l	6.99	#VALUE!	
52 Cr	# 2	0.1135	0.1135	ug/l	21.82	#VALUE!	
55 Mn	# 3	3.08	3.08	ug/l	0.53	#VALUE!	
56 Fe	# 1	1232	1232	ug/l	0.30	#VALUE!	
59 Co	# 3	0.5748	0.5748	ug/l	2.41	#VALUE!	
60 Ni	# 2	1.194	1.194	ug/l	2.96	#VALUE!	
63 Cu	# 2	0.008612	0.008612	ug/l	172.55	#VALUE!	
65 Cu	# 2	0.01556	0.01556	ug/l	130.40	#VALUE!	
65 Cu	# 3	0.07561	0.07561	ug/l	32.63	#VALUE!	
66 Zn	# 3	11.59	11.59	ug/l	0.89	#VALUE!	
68 Zn	# 3	11.28	11.28	ug/l	0.47	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	2.706	2.706	ug/l	3.69	#VALUE!	
78 Se	# 1	0.143	0.143	ug/l	10.83	#VALUE!	
88 Sr	# 3	166.3	166.3	ug/l	0.56	#VALUE!	
90 Zr	# 3	1.655	1.655	ug/l	4.41	#VALUE!	
91 Zr	# 3	1.668	1.668	ug/l	9.24	#VALUE!	
95 Mo	# 3	22.95	22.95	ug/l	0.95	#VALUE!	
107 Ag	# 3	0.01083	0.01083	ug/l	29.56	#VALUE!	
111 Cd	# 3	0.01786	0.01786	ug/l	56.94	#VALUE!	
118 Sn	# 3	0.04648	0.04648	ug/l	19.67	#VALUE!	
121 Sb	# 3	2.337	2.337	ug/l	1.72	#VALUE!	
137 Ba	# 3	1.756	1.756	ug/l	3.77	#VALUE!	
201 Hg	# 3	0.004333	0.004333	ug/l	80.27	#VALUE!	
202 Hg	# 3	0.006264	0.006264	ug/l	18.63	#VALUE!	
203 Tl	# 3	0.5196	0.5196	ug/l	2.68	#VALUE!	
205 Tl	# 3	0.5197	0.5197	ug/l	2.17	#VALUE!	
208 Pb	# 3	0.01323	0.01323	ug/l	16.08	#VALUE!	
232 Th	# 3	0.04522	0.04522	ug/l	11.76	#VALUE!	
238 U	# 3	0.005356	0.005356	ug/l	19.94	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	480612.38	1.92	643928.69	74.6	60 - 125	
45 Sc	# 1	245182.27	1.08	329114.28	74.5	60 - 125	
45 Sc	# 3	695312.44	1.81	872836.06	79.7	60 - 125	
74 Ge	# 1	92194.63	1.15	122381.69	75.3	60 - 125	
74 Ge	# 2	17476.45	3.41	21667.30	80.7	60 - 125	
74 Ge	# 3	173807.08	0.80	224459.19	77.4	60 - 125	
89 Y	# 3	969131.88	1.09	1247149.90	77.7	60 - 125	
115 In	# 3	1044238.90	1.53	1396206.60	74.8	60 - 125	
159 Tb	# 3	1572328.80	0.81	2071474.10	75.9	60 - 125	
209 Bi	# 3	970589.44	1.38	1349994.40	71.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\242SMPL.D\242SMPL.D#
Date Acquired: Mar 25 2009 12:52 am
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 28254-8
Misc Info: 3005 1/5
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 23 2009 12:56 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.07686	0.07686	ug/l	14.44	#VALUE!	
11 B	# 3	5.129	5.129	ug/l	2.07	#VALUE!	
23 Na	# 1	2669	2669	ug/l	1.39	#VALUE!	
24 Mg	# 1	408.3	408.3	ug/l	1.99	#VALUE!	
27 Al	# 1	70.11	70.11	ug/l	1.05	#VALUE!	
39 K	# 2	939.9	939.9	ug/l	1.70	#VALUE!	
40 Ca	# 1	7031	7031	ug/l	0.49	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.5003	0.5003	ug/l	11.49	#VALUE!	
51 V	# 2	0.5297	0.5297	ug/l	2.20	#VALUE!	
52 Cr	# 2	0.1373	0.1373	ug/l	13.71	#VALUE!	
55 Mn	# 3	0.1681	0.1681	ug/l	1.41	#VALUE!	
56 Fe	# 1	6.487	6.487	ug/l	2.27	#VALUE!	
59 Co	# 3	0.06951	0.06951	ug/l	4.27	#VALUE!	
60 Ni	# 2	0.476	0.476	ug/l	11.57	#VALUE!	
63 Cu	# 2	0.1093	0.1093	ug/l	15.92	#VALUE!	
65 Cu	# 2	0.1261	0.1261	ug/l	4.56	#VALUE!	
65 Cu	# 3	0.1318	0.1318	ug/l	25.54	#VALUE!	
66 Zn	# 3	0.6358	0.6358	ug/l	8.41	#VALUE!	
68 Zn	# 3	1.341	1.341	ug/l	8.42	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.1798	0.1798	ug/l	3.30	#VALUE!	
78 Se	# 1	0.1133	0.1133	ug/l	13.88	#VALUE!	
88 Sr	# 3	98.35	98.35	ug/l	0.75	#VALUE!	
90 Zr	# 3	1.475	1.475	ug/l	3.60	#VALUE!	
91 Zr	# 3	1.405	1.405	ug/l	5.54	#VALUE!	
95 Mo	# 3	1.196	1.196	ug/l	3.10	#VALUE!	
107 Ag	# 3	0.007569	0.007569	ug/l	27.52	#VALUE!	
111 Cd	# 3	0.01159	0.01159	ug/l	21.92	#VALUE!	
118 Sn	# 3	0.03775	0.03775	ug/l	7.11	#VALUE!	
121 Sb	# 3	0.0472	0.0472	ug/l	10.53	#VALUE!	
137 Ba	# 3	27.9	27.9	ug/l	1.54	#VALUE!	
201 Hg	# 3	0.004266	0.004266	ug/l	67.18	#VALUE!	
202 Hg	# 3	0.008851	0.008851	ug/l	14.34	#VALUE!	
203 Tl	# 3	0.005103	0.005103	ug/l	33.61	#VALUE!	
205 Tl	# 3	0.006678	0.006678	ug/l	14.72	#VALUE!	
208 Pb	# 3	0.04259	0.04259	ug/l	2.71	#VALUE!	
232 Th	# 3	0.02394	0.02394	ug/l	4.72	#VALUE!	
238 U	# 3	0.03007	0.03007	ug/l	1.75	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	467005.56	0.76	643928.69	72.5	60 - 125	
45 Sc	# 1	238922.36	0.94	329114.28	72.6	60 - 125	
45 Sc	# 3	655445.81	1.05	872836.06	75.1	60 - 125	
74 Ge	# 1	90713.50	0.81	122381.69	74.1	60 - 125	
74 Ge	# 2	16908.37	2.18	21667.30	78.0	60 - 125	
74 Ge	# 3	165392.88	0.24	224459.19	73.7	60 - 125	
89 Y	# 3	911192.38	0.46	1247149.90	73.1	60 - 125	
115 In	# 3	1015635.30	0.95	1396206.60	72.7	60 - 125	
159 Tb	# 3	1534073.30	1.14	2071474.10	74.1	60 - 125	
209 Bi	# 3	975338.19	0.87	1349994.40	72.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\243SMPL.D\243SMPL.D#
Date Acquired:	Mar 25 2009 12:58 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	21208-2
Misc Info:	3005 1/5
Vial Number:	3211
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.001734	0.001734	ug/l	207.21	#VALUE!	
11	B	# 3	12.44	12.44	ug/l	2.14	#VALUE!	
23	Na	# 1	3980	3980	ug/l	0.41	#VALUE!	
24	Mg	# 1	1694	1694	ug/l	0.71	#VALUE!	
27	Al	# 1	97.61	97.61	ug/l	0.42	#VALUE!	
39	K	# 2	88.14	88.14	ug/l	0.72	#VALUE!	
40	Ca	# 1	2308	2308	ug/l	1.00	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.3352	0.3352	ug/l	11.70	#VALUE!	
51	V	# 2	0.2902	0.2902	ug/l	4.14	#VALUE!	
52	Cr	# 2	0.1958	0.1958	ug/l	5.89	#VALUE!	
55	Mn	# 3	5.511	5.511	ug/l	1.17	#VALUE!	
56	Fe	# 1	163.8	163.8	ug/l	0.12	#VALUE!	
59	Co	# 3	0.03728	0.03728	ug/l	10.53	#VALUE!	
60	Ni	# 2	0.1206	0.1206	ug/l	25.16	#VALUE!	
63	Cu	# 2	0.2972	0.2972	ug/l	6.33	#VALUE!	
65	Cu	# 2	0.2635	0.2635	ug/l	6.71	#VALUE!	
65	Cu	# 3	0.2875	0.2875	ug/l	18.53	#VALUE!	
66	Zn	# 3	2.253	2.253	ug/l	3.77	#VALUE!	
68	Zn	# 3	2.298	2.298	ug/l	5.00	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	0.1561	0.1561	ug/l	9.18	#VALUE!	
78	Se	# 1	0.02955	0.02955	ug/l	13.20	#VALUE!	
88	Sr	# 3	13.14	13.14	ug/l	2.38	#VALUE!	
90	Zr	# 3	2.915	2.915	ug/l	8.54	#VALUE!	
91	Zr	# 3	2.761	2.761	ug/l	9.86	#VALUE!	
95	Mo	# 3	0.05659	0.05659	ug/l	10.76	#VALUE!	
107	Ag	# 3	0.007353	0.007353	ug/l	18.56	#VALUE!	
111	Cd	# 3	0.006292	0.006292	ug/l	30.20	#VALUE!	
118	Sn	# 3	0.03878	0.03878	ug/l	12.78	#VALUE!	
121	Sb	# 3	0.04747	0.04747	ug/l	7.68	#VALUE!	
137	Ba	# 3	3.37	3.37	ug/l	0.54	#VALUE!	
201	Hg	# 3	0.003252	0.003252	ug/l	86.50	#VALUE!	
202	Hg	# 3	0.004607	0.004607	ug/l	17.23	#VALUE!	
203	Tl	# 3	0.002617	0.002617	ug/l	82.16	#VALUE!	
205	Tl	# 3	0.003348	0.003348	ug/l	58.72	#VALUE!	
208	Pb	# 3	1.247	1.247	ug/l	1.02	#VALUE!	
232	Th	# 3	0.01781	0.01781	ug/l	8.47	#VALUE!	
238	U	# 3	0.001919	0.001919	ug/l	37.42	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	471643.16	2.21	643928.69	73.2	60 - 125	
45	Sc	# 1	236752.11	0.47	329114.28	71.9	60 - 125	
45	Sc	# 3	650039.63	0.55	872836.06	74.5	60 - 125	
74	Ge	# 1	89891.48	1.06	122381.69	73.5	60 - 125	
74	Ge	# 2	16389.08	3.00	21667.30	75.6	60 - 125	
74	Ge	# 3	164043.16	1.41	224459.19	73.1	60 - 125	
89	Y	# 3	920580.94	2.67	1247149.90	73.8	60 - 125	
115	In	# 3	1011163.80	1.56	1396206.60	72.4	60 - 125	
159	Tb	# 3	1533116.40	1.97	2071474.10	74.0	60 - 125	
209	Bi	# 3	968980.69	1.36	1349994.40	71.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\244SMPL.D\244SMPL.D#
Date Acquired:	Mar 25 2009 01:05 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	21208-3
Misc Info:	3005 1/5
Vial Number:	3212
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.005958	0.005958	ug/l	47.06	#VALUE!	
11	B	# 3	4.17	4.17	ug/l	2.07	#VALUE!	
23	Na	# 1	2147	2147	ug/l	0.82	#VALUE!	
24	Mg	# 1	266.2	266.2	ug/l	0.17	#VALUE!	
27	Al	# 1	172	172	ug/l	0.36	#VALUE!	
39	K	# 2	73.85	73.85	ug/l	2.70	#VALUE!	
40	Ca	# 1	215.3	215.3	ug/l	0.55	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	1.038	1.038	ug/l	1.87	#VALUE!	
51	V	# 2	0.3612	0.3612	ug/l	4.40	#VALUE!	
52	Cr	# 2	0.2407	0.2407	ug/l	4.74	#VALUE!	
55	Mn	# 3	1.053	1.053	ug/l	0.13	#VALUE!	
56	Fe	# 1	92.82	92.82	ug/l	0.31	#VALUE!	
59	Co	# 3	0.01367	0.01367	ug/l	7.72	#VALUE!	
60	Ni	# 2	0.1307	0.1307	ug/l	13.33	#VALUE!	
63	Cu	# 2	0.1296	0.1296	ug/l	14.07	#VALUE!	
65	Cu	# 2	0.1473	0.1473	ug/l	7.22	#VALUE!	
65	Cu	# 3	0.1486	0.1486	ug/l	2.29	#VALUE!	
66	Zn	# 3	1.16	1.16	ug/l	2.13	#VALUE!	
68	Zn	# 3	1.181	1.181	ug/l	2.23	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	0.08896	0.08896	ug/l	25.25	#VALUE!	
78	Se	# 1	0.04414	0.04414	ug/l	9.14	#VALUE!	
88	Sr	# 3	2.61	2.61	ug/l	0.71	#VALUE!	
90	Zr	# 3	2.149	2.149	ug/l	5.24	#VALUE!	
91	Zr	# 3	2.108	2.108	ug/l	6.20	#VALUE!	
95	Mo	# 3	0.03635	0.03635	ug/l	39.86	#VALUE!	
107	Ag	# 3	0.004272	0.004272	ug/l	32.56	#VALUE!	
111	Cd	# 3	0.009307	0.009307	ug/l	40.22	#VALUE!	
118	Sn	# 3	0.02295	0.02295	ug/l	6.10	#VALUE!	
121	Sb	# 3	0.03864	0.03864	ug/l	13.04	#VALUE!	
137	Ba	# 3	1.071	1.071	ug/l	4.24	#VALUE!	
201	Hg	# 3	0.003491	0.003491	ug/l	66.49	#VALUE!	
202	Hg	# 3	0.005915	0.005915	ug/l	26.26	#VALUE!	
203	Tl	# 3	0.002365	0.002365	ug/l	50.74	#VALUE!	
205	Tl	# 3	0.001384	0.001384	ug/l	110.33	#VALUE!	
208	Pb	# 3	0.7884	0.7884	ug/l	1.79	#VALUE!	
232	Th	# 3	0.02295	0.02295	ug/l	5.53	#VALUE!	
238	U	# 3	0.006576	0.006576	ug/l	20.82	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	461599.72	0.57	643928.69	71.7	60 - 125	
45	Sc	# 1	235184.88	0.36	329114.28	71.5	60 - 125	
45	Sc	# 3	646468.69	0.91	872836.06	74.1	60 - 125	
74	Ge	# 1	89081.02	0.58	122381.69	72.8	60 - 125	
74	Ge	# 2	16372.04	2.49	21667.30	75.6	60 - 125	
74	Ge	# 3	162071.75	1.20	224459.19	72.2	60 - 125	
89	Y	# 3	913260.94	1.50	1247149.90	73.2	60 - 125	
115	In	# 3	1004989.60	1.30	1396206.60	72.0	60 - 125	
159	Tb	# 3	1524485.40	0.86	2071474.10	73.6	60 - 125	
209	Bi	# 3	976183.19	2.09	1349994.40	72.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C23100.B\245SMPL.D\245SMPL.D#
Date Acquired:	Mar 25 2009 01:12 am
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	21208-4
Misc Info:	3005 1/5
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 23 2009 12:56 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	-0.0001298	-0.0001298	ug/l	1155.60	#VALUE!	
11	B	# 3	-0.006769	-0.006769	ug/l	330.18	#VALUE!	
23	Na	# 1	-33.3	-33.3	ug/l	0.47	#VALUE!	
24	Mg	# 1	0.1929	0.1929	ug/l	15.39	#VALUE!	
27	Al	# 1	3.743	3.743	ug/l	2.64	#VALUE!	
39	K	# 2	-5.451	-5.451	ug/l	12.55	#VALUE!	
40	Ca	# 1	3.188	3.188	ug/l	3.10	#VALUE!	
45	Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.08672	0.08672	ug/l	13.24	#VALUE!	
51	V	# 2	0.1776	0.1776	ug/l	8.34	#VALUE!	
52	Cr	# 2	0.08165	0.08165	ug/l	23.93	#VALUE!	
55	Mn	# 3	0.01213	0.01213	ug/l	25.61	#VALUE!	
56	Fe	# 1	0.4966	0.4966	ug/l	3.89	#VALUE!	
59	Co	# 3	-0.002154	-0.002154	ug/l	7.36	#VALUE!	
60	Ni	# 2	0.01297	0.01297	ug/l	90.67	#VALUE!	
63	Cu	# 2	0.02838	0.02838	ug/l	33.82	#VALUE!	
65	Cu	# 2	0.03529	0.03529	ug/l	51.49	#VALUE!	
65	Cu	# 3	0.02049	0.02049	ug/l	56.96	#VALUE!	
66	Zn	# 3	0.09206	0.09206	ug/l	20.89	#VALUE!	
68	Zn	# 3	0.1194	0.1194	ug/l	28.00	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	0.02513	0.02513	ug/l	34.89	#VALUE!	
78	Se	# 1	0.009415	0.009415	ug/l	66.87	#VALUE!	
88	Sr	# 3	0.003399	0.003399	ug/l	41.16	#VALUE!	
90	Zr	# 3	0.1896	0.1896	ug/l	4.34	#VALUE!	
91	Zr	# 3	0.1769	0.1769	ug/l	10.64	#VALUE!	
95	Mo	# 3	0.02123	0.02123	ug/l	24.20	#VALUE!	
107	Ag	# 3	0.001745	0.001745	ug/l	50.34	#VALUE!	
111	Cd	# 3	-1.877E-005	-1.877E-005	ug/l	24.21	#VALUE!	
118	Sn	# 3	0.005058	0.005058	ug/l	46.50	#VALUE!	
121	Sb	# 3	0.01147	0.01147	ug/l	8.90	#VALUE!	
137	Ba	# 3	0.004733	0.004733	ug/l	54.26	#VALUE!	
201	Hg	# 3	0.001212	0.001212	ug/l	91.83	#VALUE!	
202	Hg	# 3	0.004576	0.004576	ug/l	14.94	#VALUE!	
203	Tl	# 3	-0.001095	-0.001095	ug/l	132.60	#VALUE!	
205	Tl	# 3	-0.000996	-0.000996	ug/l	55.48	#VALUE!	
208	Pb	# 3	0.0003747	0.0003747	ug/l	465.44	#VALUE!	
232	Th	# 3	0.005696	0.005696	ug/l	7.30	#VALUE!	
238	U	# 3	-3.712E-005	-3.712E-005	ug/l	697.47	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	486080.19	1.84	643928.69	75.5	60 - 125	
45	Sc	# 1	239693.66	0.12	329114.28	72.8	60 - 125	
45	Sc	# 3	671664.44	0.97	872836.06	77.0	60 - 125	
74	Ge	# 1	91468.48	0.96	122381.69	74.7	60 - 125	
74	Ge	# 2	16799.27	1.74	21667.30	77.5	60 - 125	
74	Ge	# 3	169487.84	0.68	224459.19	75.5	60 - 125	
89	Y	# 3	938207.06	0.26	1247149.90	75.2	60 - 125	
115	In	# 3	1050453.90	1.83	1396206.60	75.2	60 - 125	
159	Tb	# 3	1566877.30	0.71	2071474.10	75.6	60 - 125	
209	Bi	# 3	996792.81	1.28	1349994.40	73.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\246_CCV.D\246_CCV.D#
Date Acquired: Mar 25 2009 01:19 am
Operator: BB
Sample Name: CCV
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	52.67 ug/l	1.59	50.00	90 - 110	
11 B	# 3	86.91 ug/l	1.77	100.00	90 - 110	Fail
23 Na	# 1	4816 ug/l	0.30	5000.00	90 - 110	
24 Mg	# 1	4856 ug/l	0.41	5000.00	90 - 110	
27 Al	# 1	493.3 ug/l	0.57	500.00	90 - 110	
39 K	# 2	4486 ug/l	0.28	5000.00	90 - 110	Fail
40 Ca	# 1	4915 ug/l	0.14	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------	---	##### - #####	
47 Ti	# 3	51.32 ug/l	0.88	50.00	90 - 110	
51 V	# 2	48.1 ug/l	1.29	50.00	90 - 110	
52 Cr	# 2	47.39 ug/l	0.68	50.00	90 - 110	
55 Mn	# 3	472.2 ug/l	0.93	500.00	90 - 110	
56 Fe	# 1	4994 ug/l	0.87	5000.00	90 - 110	
59 Co	# 3	47.87 ug/l	4.21	50.00	90 - 110	
60 Ni	# 2	48.86 ug/l	0.82	50.00	90 - 110	
63 Cu	# 2	49.29 ug/l	1.58	50.00	90 - 110	
65 Cu	# 2	48.87 ug/l	0.68	50.00	90 - 110	
65 Cu	# 3	49.98 ug/l	1.04	50.00	90 - 110	
66 Zn	# 3	48 ug/l	0.66	50.00	90 - 110	
68 Zn	# 3	48.02 ug/l	1.23	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------	---	##### - #####	
75 As	# 2	50 ug/l	1.24	50.00	90 - 110	
78 Se	# 1	46.79 ug/l	0.59	50.00	90 - 110	
88 Sr	# 3	49.64 ug/l	0.15	50.00	90 - 110	
90 Zr	# 3	494.2 ug/l	0.21	500.00	90 - 110	
91 Zr	# 3	504.3 ug/l	0.58	500.00	90 - 110	
95 Mo	# 3	50.36 ug/l	1.14	50.00	90 - 110	
107 Ag	# 3	49.12 ug/l	0.85	50.00	90 - 110	
111 Cd	# 3	49.27 ug/l	0.39	50.00	90 - 110	
118 Sn	# 3	48.71 ug/l	0.61	50.00	90 - 110	
121 Sb	# 3	49.45 ug/l	1.40	50.00	90 - 110	
137 Ba	# 3	49.38 ug/l	0.96	50.00	90 - 110	
201 Hg	# 3	2.603 ug/l	0.59	2.50	90 - 110	
202 Hg	# 3	2.578 ug/l	0.08	2.50	90 - 110	
203 Tl	# 3	9.493 ug/l	0.55	10.00	90 - 110	
205 Tl	# 3	9.491 ug/l	1.32	10.00	90 - 110	
208 Pb	# 3	45.53 ug/l	0.73	50.00	90 - 110	
232 Th	# 3	48.76 ug/l	0.38	---	##### - #####	
238 U	# 3	47.48 ug/l	0.55	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	452885.81	1.48	643928.69	70.3	60 - 125	
45 Sc	# 1	244715.25	1.17	329114.28	74.4	60 - 125	
45 Sc	# 3	662893.44	0.61	872836.06	75.9	60 - 125	
74 Ge	# 1	93525.98	1.33	122381.69	76.4	60 - 125	
74 Ge	# 2	17393.76	2.83	21667.30	80.3	60 - 125	
74 Ge	# 3	168391.94	0.80	224459.19	75.0	60 - 125	
89 Y	# 3	943719.44	0.89	1247149.90	75.7	60 - 125	
115 In	# 3	1033631.60	0.98	1396206.60	74.0	60 - 125	
159 Tb	# 3	1552116.60	1.54	2071474.10	74.9	60 - 125	
209 Bi	# 3	959872.38	1.22	1349994.40	71.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C23100.B\247_CCB.D\247_CCB.D#
Date Acquired: Mar 25 2009 01:26 am
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 23 2009 12:56 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.004445 ug/l	50.87	#VALUE!	
11 B	0.731 ug/l	13.49	#VALUE!	
23 Na	-26.88 ug/l	1.68	#VALUE!	
24 Mg	5.414 ug/l	5.27	#VALUE!	
27 Al	0.5126 ug/l	8.45	#VALUE!	
39 K	-6.22 ug/l	7.82	#VALUE!	
40 Ca	7.959 ug/l	8.27	#VALUE!	
45 Sc	--------- ug/l	--------	#VALUE!	
47 Ti	0.01054 ug/l	178.56	#VALUE!	
51 V	-0.005341 ug/l	110.97	#VALUE!	
52 Cr	-0.008175 ug/l	94.13	#VALUE!	
55 Mn	0.03671 ug/l	5.70	#VALUE!	
56 Fe	4.124 ug/l	4.89	#VALUE!	
59 Co	0.001312 ug/l	78.89	#VALUE!	
60 Ni	-0.04116 ug/l	35.84	#VALUE!	
63 Cu	-0.03884 ug/l	23.87	#VALUE!	
65 Cu	-0.01729 ug/l	24.23	#VALUE!	
65 Cu	-0.04776 ug/l	15.70	#VALUE!	
66 Zn	-0.1654 ug/l	10.52	#VALUE!	
68 Zn	-0.1273 ug/l	15.47	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.02655 ug/l	13.56	#VALUE!	
78 Se	0.08644 ug/l	15.02	#VALUE!	
88 Sr	0.003369 ug/l	53.13	#VALUE!	
90 Zr	0.5215 ug/l	2.93	#VALUE!	
91 Zr	0.5235 ug/l	10.48	#VALUE!	
95 Mo	0.09308 ug/l	22.76	#VALUE!	
107 Ag	0.008322 ug/l	30.93	#VALUE!	
111 Cd	0.006123 ug/l	80.29	#VALUE!	
118 Sn	0.07058 ug/l	14.79	#VALUE!	
121 Sb	0.02982 ug/l	31.48	#VALUE!	
137 Ba	0.008842 ug/l	56.42	#VALUE!	
201 Hg	0.03367 ug/l	12.81	#VALUE!	
202 Hg	0.03554 ug/l	14.98	#VALUE!	
203 Tl	0.02656 ug/l	18.31	#VALUE!	
205 Tl	0.02755 ug/l	13.04	#VALUE!	
208 Pb	0.004927 ug/l	19.20	#VALUE!	
232 Th	0.05561 ug/l	6.81	#VALUE!	
238 U	0.007949 ug/l	17.11	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	467868.31	2.76	643928.69	72.7	60 - 125	
45 Sc	245505.84	1.04	329114.28	74.6	60 - 125	
45 Sc	663510.69	0.41	872836.06	76.0	60 - 125	
74 Ge	95109.64	0.22	122381.69	77.7	60 - 125	
74 Ge	17601.45	3.18	21667.30	81.2	60 - 125	
74 Ge	169974.02	1.11	224459.19	75.7	60 - 125	
89 Y	947202.69	0.59	1247149.90	75.9	60 - 125	
115 In	1040359.30	0.95	1396206.60	74.5	60 - 125	
159 Tb	1558528.00	0.35	2071474.10	75.2	60 - 125	
209 Bi	989262.81	2.37	1349994.40	73.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C23100.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

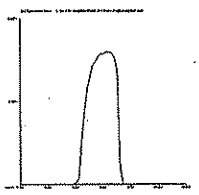
Data Results:
Analytes: Pass
ISTD: Pass

200.8 QC Tune Report

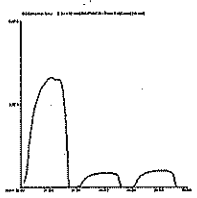
Data File: C:\ICPCHEM\1\DATA\09C25k00.B\001TUNE.D
Date Acquired: Mar 25 2009 11:00 am
Acq. Method: TN200_8.M
Operator: BB
Sample Name: 100 ppb tune check
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

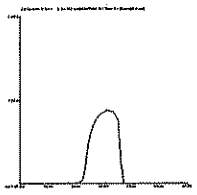
Element	Actual	Required	Flag
9 Be	1.81	5.00	
24 Mg	0.61	5.00	
59 Co	0.68	5.00	
115 In	1.56	5.00	
208 Pb	1.33	5.00	



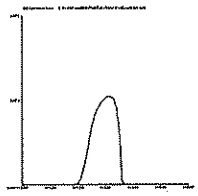
9 Be
Mass Calib.
Actual: 9.05
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.70
Required: 1.00
Flag:



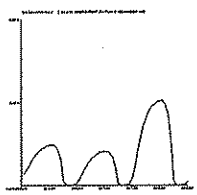
24 Mg
Mass Calib.
Actual: 24.10
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.70
Required: 1.00
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 1.00
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.65
Required: 1.00
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.65
Required: 1.00
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\002CA
Date Acquired: Mar 25 2009 11:53 am
Operator: BB
Sample Name: CalBlk
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 11:57 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	503219.00	A	9118.00	1.81
9	Be	25.56	P	6.94	27.15
11	B	980.07	P	83.87	8.56
23	Na	37990.41	P	348.30	0.92
24	Mg	5781.48	P	63.90	1.11
27	Al	4958.94	P	29.90	0.60
39	K	1996.90	P	114.10	5.71
40	Ca	22769.31	P	192.50	0.85
45	Sc	243842.41	P	1287.00	0.53
45	Sc	18685.64	P	1014.00	5.43
45	Sc	754283.81	A	6719.00	0.89
47	Ti	102.23	P	18.36	17.96
51	V	58.15	P	14.16	24.35
52	Cr	117.04	P	17.37	14.84
55	Mn	2203.62	P	115.90	5.26
56	Fe	30963.20	P	305.70	0.99
59	Co	281.13	P	42.86	15.25
60	Ni	34.07	P	8.19	24.04
63	Cu	114.82	P	4.49	3.91
65	Cu	55.93	P	8.34	14.91
65	Cu	232.23	P	15.03	6.47
66	Zn	255.57	P	7.70	3.01
68	Zn	308.91	P	30.97	10.03
70	Ge	7967.00	P	506.40	6.36
74	Ge	100408.10	P	629.10	0.63
74	Ge	18198.95	P	786.30	4.32
74	Ge	202375.20	P	2241.00	1.11
75	As	2.67	P	0.58	21.65
78	Se	4.00	P	0.00	0.00
88	Sr	841.18	P	24.12	2.87
89	Y	1100570.00	A	14560.00	1.32
90	Zr	782.28	P	37.47	4.79
91	Zr	187.79	P	25.24	13.44
95	Mo	297.79	P	50.15	16.84
107	Ag	115.56	P	22.20	19.21
111	Cd	17.60	P	6.94	39.46
115	In	1209037.00	A	11090.00	0.92
118	Sn	164.45	P	15.75	9.58
121	Sb	81.11	P	25.02	30.85
137	Ba	117.78	P	13.47	11.44
159	Tb	1790402.00	A	16550.00	0.92
201	Hg	7.22	P	2.55	35.25
202	Hg	18.11	P	2.52	13.94
203	Tl	198.34	P	14.53	7.33
205	Tl	462.25	P	48.58	10.51
208	Pb	817.83	P	43.51	5.32
209	Bi	1104054.00	A	9235.00	0.84
232	Th	337.80	P	38.35	11.35
238	U	312.24	P	24.57	7.87

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\003CA
Date Acquired: Mar 25 2009 11:59 am
Operator: BB
Sample Name: CalBlk
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 11:58 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	498175.59	A	17300.00	3.47
9	Be	34.45	P	12.62	36.64
11	B	984.52	P	39.06	3.97
23	Na	42742.87	P	478.10	1.12
24	Mg	6188.36	P	44.10	0.71
27	Al	5556.93	P	188.50	3.39
39	K	2100.26	P	60.11	2.86
40	Ca	24872.11	P	417.60	1.68
45	Sc	259364.41	P	2021.00	0.78
45	Sc	19857.37	P	657.00	3.31
45	Sc	760119.69	A	13390.00	1.76
47	Ti	94.45	P	10.71	11.34
51	V	70.00	P	6.19	8.84
52	Cr	144.08	P	8.34	5.79
55	Mn	2248.06	P	103.30	4.60
56	Fe	32481.42	P	600.30	1.85
59	Co	290.02	P	6.67	2.30
60	Ni	33.33	P	10.60	31.80
63	Cu	136.30	P	7.56	5.55
65	Cu	64.82	P	6.70	10.33
65	Cu	212.23	P	30.25	14.25
66	Zn	258.90	P	15.75	6.08
68	Zn	280.01	P	14.53	5.19
70	Ge	8296.83	P	215.30	2.60
74	Ge	103624.30	P	1340.00	1.29
74	Ge	18850.62	P	508.20	2.70
74	Ge	202622.50	P	3268.00	1.61
75	As	4.33	P	2.65	61.06
78	Se	3.11	P	0.51	16.37
88	Sr	821.17	P	16.78	2.04
89	Y	1097473.00	A	14550.00	1.33
90	Zr	915.70	P	342.40	37.39
91	Zr	205.57	P	53.37	25.96
95	Mo	267.79	P	18.96	7.08
107	Ag	91.12	P	21.69	23.81
111	Cd	25.40	P	11.72	46.15
115	In	1208031.00	A	18170.00	1.50
118	Sn	193.34	P	6.67	3.45
121	Sb	70.00	P	5.77	8.25
137	Ba	116.67	P	25.17	21.57
159	Tb	1771007.00	A	18390.00	1.04
201	Hg	5.67	P	0.88	15.56
202	Hg	14.67	P	2.03	13.82
203	Tl	180.56	P	18.96	10.50
205	Tl	413.36	P	38.45	9.30
208	Pb	907.83	P	45.26	4.99
209	Bi	1096737.00	A	18410.00	1.68
232	Th	305.57	P	30.25	9.90
238	U	343.35	P	8.82	2.57

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\004CA
Date Acquired: Mar 25 2009 12:06 pm
Operator: BB
Sample Name: CalBlk
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:04 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	486782.69	A	7306.00	1.50
9	Be	17.78	P	7.70	43.30
11	B	965.63	P	33.73	3.49
23	Na	43486.40	P	163.60	0.38
24	Mg	6288.40	P	26.07	0.41
27	Al	5632.55	P	94.34	1.67
39	K	2155.82	P	106.00	4.92
40	Ca	25663.59	P	498.10	1.94
45	Sc	262473.59	P	2972.00	1.13
45	Sc	19802.46	P	456.10	2.30
45	Sc	757385.69	A	12370.00	1.63
47	Ti	95.56	P	18.36	19.21
51	V	65.93	P	6.12	9.28
52	Cr	142.23	P	12.62	8.87
55	Mn	2079.14	P	13.48	0.65
56	Fe	32727.71	P	193.80	0.59
59	Co	271.13	P	9.62	3.55
60	Ni	37.78	P	4.01	10.60
63	Cu	120.74	P	11.35	9.40
65	Cu	64.08	P	11.19	17.46
65	Cu	228.90	P	42.47	18.55
66	Zn	244.46	P	18.96	7.76
68	Zn	310.02	P	12.02	3.88
70	Ge	8325.00	P	82.99	1.00
74	Ge	104553.20	P	1071.00	1.02
74	Ge	18945.58	P	345.00	1.82
74	Ge	201571.70	P	987.00	0.49
75	As	2.78	P	1.02	36.65
78	Se	4.67	P	0.88	18.90
88	Sr	793.39	P	40.56	5.11
89	Y	1104217.00	A	16370.00	1.48
90	Zr	747.83	P	48.58	6.50
91	Zr	187.79	P	45.26	24.10
95	Mo	254.46	P	11.71	4.60
107	Ag	87.78	P	5.09	5.80
111	Cd	16.51	P	3.33	20.16
115	In	1204052.00	A	11180.00	0.93
118	Sn	202.23	P	20.37	10.07
121	Sb	81.11	P	15.75	19.42
137	Ba	98.89	P	11.71	11.84
159	Tb	1778359.00	A	12780.00	0.72
201	Hg	7.11	P	2.17	30.50
202	Hg	17.44	P	2.59	14.84
203	Tl	132.78	P	14.18	10.68
205	Tl	305.57	P	47.30	15.48
208	Pb	731.15	P	57.19	7.82
209	Bi	1090403.00	A	17940.00	1.65
232	Th	288.91	P	39.07	13.52
238	U	270.02	P	20.00	7.41

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\005CA
Date Acquired: Mar 25 2009 12:13 pm
Operator: BB
Sample Name: CalBlk
Misc Info:
Vial Number: 2
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:11 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	499169.81	A	5871.00	1.18
9	Be	10.00	P	5.77	57.74
11	B	985.63	P	75.16	7.63
23	Na	36458.37	P	835.90	2.29
24	Mg	2992.68	P	232.40	7.77
27	Al	1860.24	P	125.40	6.74
39	K	1948.00	P	35.96	1.85
40	Ca	10648.04	P	237.20	2.23
45	Sc	264731.31	P	2757.00	1.04
45	Sc	19785.78	P	437.20	2.21
45	Sc	760577.38	A	10360.00	1.36
47	Ti	55.56	P	15.03	27.05
51	V	61.11	P	5.09	8.33
52	Cr	119.26	P	7.14	5.99
55	Mn	1157.88	P	60.04	5.19
56	Fe	11089.80	P	349.90	3.16
59	Co	143.34	P	12.02	8.39
60	Ni	22.96	P	6.70	29.16
63	Cu	101.85	P	2.31	2.27
65	Cu	58.52	P	1.70	2.90
65	Cu	182.23	P	10.72	5.88
66	Zn	288.90	P	41.41	14.33
68	Zn	327.80	P	22.20	6.77
70	Ge	8378.74	P	205.20	2.45
74	Ge	104901.10	P	1331.00	1.27
74	Ge	18953.02	P	391.20	2.06
74	Ge	201029.59	P	1951.00	0.97
75	As	2.67	P	1.45	54.49
78	Se	2.11	P	0.19	9.12
88	Sr	394.47	P	15.03	3.81
89	Y	1109971.00	A	8880.00	0.80
90	Zr	622.26	P	23.42	3.76
91	Zr	168.90	P	13.47	7.98
95	Mo	138.90	P	16.78	12.08
107	Ag	63.34	P	5.77	9.12
111	Cd	7.69	P	5.10	66.25
115	In	1224362.00	A	18450.00	1.51
118	Sn	122.23	P	10.18	8.33
121	Sb	36.67	P	17.64	48.11
137	Ba	41.11	P	10.71	26.05
159	Tb	1805772.00	A	13960.00	0.77
201	Hg	6.78	P	1.07	15.80
202	Hg	19.11	P	3.66	19.13
203	Tl	97.22	P	5.09	5.24
205	Tl	226.68	P	8.82	3.89
208	Pb	384.46	P	30.25	7.87
209	Bi	1107145.00	A	13450.00	1.21
232	Th	181.12	P	12.62	6.97
238	U	106.67	P	26.67	25.00

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\006CA
Date Acquired: Mar 25 2009 12:20 pm
Operator: BB
Sample Name: CalBlk
Misc Info:
Vial Number: 2
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:18 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	508194.69	A	7627.00	1.50
9	Be	12.22	P	1.93	15.75
11	B	1022.30	P	77.28	7.56
23	Na	37788.96	P	154.00	0.41
24	Mg	3204.97	P	57.40	1.79
27	Al	1934.66	P	71.85	3.71
39	K	1945.78	P	112.40	5.78
40	Ca	11370.90	P	542.40	4.77
45	Sc	271114.81	P	1373.00	0.51
45	Sc	20564.01	P	365.00	1.77
45	Sc	781812.13	A	9996.00	1.28
47	Ti	45.56	P	7.70	16.90
51	V	61.85	P	8.41	13.60
52	Cr	112.97	P	14.50	12.84
55	Mn	1092.32	P	100.00	9.15
56	Fe	11560.08	P	325.60	2.82
59	Co	114.45	P	25.46	22.25
60	Ni	31.48	P	4.49	14.26
63	Cu	97.04	P	21.73	22.39
65	Cu	52.59	P	12.64	24.03
65	Cu	187.79	P	6.94	3.70
66	Zn	314.46	P	57.19	18.19
68	Zn	316.68	P	29.06	9.18
70	Ge	8441.74	P	197.80	2.34
74	Ge	106488.60	P	680.80	0.64
74	Ge	19167.42	P	708.20	3.69
74	Ge	202670.50	P	1389.00	0.69
75	As	3.78	P	1.07	28.35
78	Se	3.11	P	2.22	71.33
88	Sr	412.25	P	59.29	14.38
89	Y	1119551.00	A	4179.00	0.37
90	Zr	618.93	P	61.14	9.88
91	Zr	163.34	P	28.48	17.44
95	Mo	116.67	P	12.02	10.30
107	Ag	51.11	P	10.18	19.92
111	Cd	9.93	P	5.78	58.16
115	In	1223926.00	A	21570.00	1.76
118	Sn	121.12	P	17.11	14.13
121	Sb	41.11	P	9.62	23.41
137	Ba	44.45	P	13.88	31.23
159	Tb	1810500.00	A	14270.00	0.79
201	Hg	5.22	P	0.69	13.29
202	Hg	15.22	P	3.03	19.87
203	Tl	87.22	P	7.88	9.03
205	Tl	215.57	P	13.88	6.44
208	Pb	374.46	P	61.68	16.47
209	Bi	1122749.00	A	17130.00	1.53
232	Th	182.23	P	18.95	10.40
238	U	96.67	P	15.28	15.81

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\007CA
Date Acquired: Mar 25 2009 12:27 pm
Operator: BB
Sample Name: CalBlk
Misc Info:
Vial Number: 2
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:25 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	521512.69	A	5175.00	0.99
9	Be	6.67	P	8.82	132.28
11	B	1082.31	P	48.23	4.46
23	Na	37690.67	P	394.20	1.05
24	Mg	3202.74	P	60.06	1.88
27	Al	1954.68	P	122.60	6.27
39	K	2021.36	P	198.40	9.82
40	Ca	11333.09	P	507.80	4.48
45	Sc	273564.31	P	2057.00	0.75
45	Sc	20861.88	P	630.60	3.02
45	Sc	788702.81	A	14690.00	1.86
47	Ti	36.67	P	8.82	24.05
51	V	50.74	P	12.49	24.62
52	Cr	123.71	P	5.25	4.25
55	Mn	1074.53	P	56.81	5.29
56	Fe	11069.59	P	210.90	1.91
59	Co	112.23	P	26.74	23.83
60	Ni	27.41	P	7.40	26.99
63	Cu	98.15	P	24.65	25.12
65	Cu	64.45	P	13.65	21.18
65	Cu	177.79	P	7.70	4.33
66	Zn	314.46	P	41.68	13.25
68	Zn	352.24	P	29.13	8.27
70	Ge	8545.89	P	264.50	3.10
74	Ge	107351.90	P	363.60	0.34
74	Ge	19253.08	P	503.70	2.62
74	Ge	206712.70	P	1512.00	0.73
75	As	4.00	P	2.00	50.00
78	Se	2.33	P	1.53	65.49
88	Sr	391.14	P	57.96	14.82
89	Y	1130673.00	A	7965.00	0.70
90	Zr	636.71	P	18.56	2.92
91	Zr	154.45	P	9.62	6.23
95	Mo	128.89	P	11.71	9.08
107	Ag	66.67	P	20.82	31.23
111	Cd	9.92	P	5.77	58.19
115	In	1246750.00	A	15460.00	1.24
118	Sn	117.78	P	18.36	15.59
121	Sb	41.11	P	1.93	4.68
137	Ba	40.00	P	3.33	8.33
159	Tb	1843985.00	A	29130.00	1.58
201	Hg	6.67	P	1.53	22.92
202	Hg	18.33	P	4.26	23.21
203	Tl	75.56	P	3.85	5.09
205	Tl	185.57	P	22.20	11.96
208	Pb	388.91	P	47.42	12.19
209	Bi	1136194.00	A	14460.00	1.27
232	Th	173.34	P	11.55	6.66
238	U	110.01	P	11.55	10.50

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\008CA
Date Acquired: Mar 25 2009 12:34 pm
Operator: BB
Sample Name: CALBLK
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:32 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	534165.50	A	10490.00	1.96
9	Be	3.33	P	3.33	99.98
11	B	900.07	P	49.34	5.48
23	Na	23228.66	P	79.26	0.34
24	Mg	183.34	P	27.29	14.89
27	Al	378.92	P	71.92	18.98
39	K	1880.22	P	38.44	2.04
40	Ca	4433.14	P	94.57	2.13
45	Sc	277284.81	P	563.90	0.20
45	Sc	21347.84	P	529.60	2.48
45	Sc	807455.38	A	11930.00	1.48
47	Ti	14.45	P	13.88	96.09
51	V	53.70	P	9.05	16.85
52	Cr	121.11	P	29.46	24.32
55	Mn	378.91	P	8.39	2.21
56	Fe	1572.39	P	88.79	5.65
59	Co	18.89	P	5.09	26.96
60	Ni	27.04	P	6.32	23.37
63	Cu	64.08	P	13.89	21.68
65	Cu	32.59	P	10.56	32.40
65	Cu	115.56	P	24.12	20.87
66	Zn	206.68	P	18.56	8.98
68	Zn	280.01	P	8.82	3.15
70	Ge	8548.47	P	208.90	2.44
74	Ge	108561.40	P	1351.00	1.24
74	Ge	19785.36	P	351.80	1.78
74	Ge	206858.00	P	2844.00	1.37
75	As	2.56	P	0.19	7.53
78	Se	0.67	P	1.16	173.25
88	Sr	68.89	P	3.85	5.59
89	Y	1146744.00	A	19790.00	1.73
90	Zr	617.82	P	26.94	4.36
91	Zr	115.56	P	16.78	14.52
95	Mo	47.78	P	6.94	14.52
107	Ag	22.22	P	15.75	70.87
111	Cd	2.19	P	1.92	87.57
115	In	1264054.00	A	13450.00	1.06
118	Sn	48.89	P	6.94	14.19
121	Sb	17.78	P	8.39	47.19
137	Ba	8.89	P	6.94	78.06
159	Tb	1862987.00	A	20120.00	1.08
201	Hg	4.67	P	0.88	18.90
202	Hg	11.89	P	2.22	18.66
203	Tl	72.78	P	12.51	17.19
205	Tl	148.90	P	13.88	9.32
208	Pb	170.01	P	30.00	17.65
209	Bi	1142263.00	A	25250.00	2.21
232	Th	55.56	P	15.03	27.05
238	U	13.33	P	8.82	66.14

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\009CA
Date Acquired: Mar 25 2009 12:40 pm
Operator: BB
Sample Name: CALBLK
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:38 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	531519.69	A	12610.00	2.37
9	Be	0.00	P	0.00	0.00
11	B	870.06	P	39.30	4.52
23	Na	23065.11	P	159.70	0.69
24	Mg	203.34	P	13.33	6.56
27	Al	381.15	P	28.38	7.45
39	K	1911.33	P	36.57	1.91
40	Ca	4392.03	P	113.70	2.59
45	Sc	282316.41	P	3314.00	1.17
45	Sc	21810.82	P	645.10	2.96
45	Sc	802725.81	A	4905.00	0.61
47	Ti	17.78	P	5.09	28.64
51	V	52.59	P	4.63	8.80
52	Cr	123.34	P	9.69	7.85
55	Mn	380.02	P	34.80	9.16
56	Fe	1600.16	P	74.47	4.65
59	Co	35.56	P	5.09	14.32
60	Ni	17.41	P	6.12	35.16
63	Cu	64.45	P	5.88	9.12
65	Cu	33.70	P	2.31	6.86
65	Cu	127.78	P	16.78	13.13
66	Zn	208.90	P	25.02	11.98
68	Zn	280.02	P	26.67	9.52
70	Ge	8902.05	P	218.90	2.46
74	Ge	109028.60	P	726.20	0.67
74	Ge	20216.41	P	509.80	2.52
74	Ge	209704.91	P	2853.00	1.36
75	As	1.33	P	0.33	25.00
78	Se	1.78	P	0.51	28.64
88	Sr	71.11	P	26.74	37.60
89	Y	1159008.00	A	5886.00	0.51
90	Zr	553.37	P	3.34	0.60
91	Zr	145.56	P	25.89	17.79
95	Mo	34.45	P	10.71	31.09
107	Ag	22.22	P	5.09	22.91
111	Cd	-0.02	P	0.01	31.11
115	In	1277749.00	A	2371.00	0.19
118	Sn	57.78	P	21.17	36.64
121	Sb	12.22	P	1.93	15.75
137	Ba	30.00	P	12.02	40.07
159	Tb	1896321.00	A	16070.00	0.85
201	Hg	5.67	P	2.00	35.29
202	Hg	9.89	P	1.02	10.29
203	Tl	45.00	P	12.02	26.71
205	Tl	148.90	P	30.97	20.80
208	Pb	196.68	P	49.78	25.31
209	Bi	1156151.00	A	18950.00	1.64
232	Th	48.89	P	10.18	20.82
238	U	3.33	P	3.33	99.99

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\010CALS.D\010CALS.D#
Date Acquired: Mar 25 2009 12:47 pm
Operator: BB
Sample Name: Cal Std 0.5/50
Misc Info: 1/200 ms cal std 00054
Vial Number: 4501
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:45 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	543497.50	A	9702.00	1.79
7 (Li)	41253.75	P	1305.00	3.16
9 Be	1490.15	P	14.53	0.98
11 B	4014.10	P	82.15	2.05
23 Na	149894.00	P	2095.00	1.40
24 Mg	90414.59	P	328.30	0.36
27 Al	9402.57	P	377.40	4.01
39 K	7730.33	P	113.90	1.47
40 Ca	202095.91	P	642.60	0.32
45 Sc	284532.59	P	1146.00	0.40
45 Sc	21828.64	P	503.10	2.30
45 Sc	808655.38	A	5157.00	0.64
47 Ti	571.15	P	61.86	10.83
51 V	676.69	P	30.97	4.58
52 Cr	995.61	P	51.69	5.19
55 Mn	110292.70	P	573.20	0.52
56 Fe	382734.31	P	4124.00	1.08
59 Co	7662.54	P	208.50	2.72
60 Ni	391.49	P	18.67	4.77
63 Cu	1091.54	P	50.85	4.66
65 Cu	577.06	P	37.03	6.42
65 Cu	1870.21	P	65.08	3.48
66 Zn	1631.28	P	93.66	5.74
68 Zn	1359.02	P	70.43	5.18
70 Ge	53380.26	P	95.22	0.18
70 Ge	9051.79	P	249.90	2.76
70 Ge	107616.10	P	1255.00	1.17
72 Ge	148847.91	P	1535.00	1.03
74 Ge	109801.00	P	747.50	0.68
74 Ge	20300.95	P	380.90	1.88
74 Ge	210700.70	P	1836.00	0.87
75 As	77.89	P	5.05	6.48
78 Se	123.67	P	1.16	0.93
88 Sr	11245.43	P	182.00	1.62
89 Y	1170990.00	A	14580.00	1.25
90 Zr	44291.88	P	1459.00	3.29
91 Zr	9625.16	P	280.30	2.91
95 Mo	1930.23	P	70.01	3.63
107 Ag	5528.13	P	104.00	1.88
111 Cd	1288.96	P	73.56	5.71
115 In	1288769.00	A	32940.00	2.56
118 Sn	3543.99	P	70.56	1.99
121 Sb	4208.67	P	13.48	0.32
137 Ba	1769.09	P	103.60	5.86
159 Tb	1905226.00	A	22530.00	1.18
166 Er	33.33	P	12.02	36.06
201 Hg	41.89	P	3.66	8.73
202 Hg	86.11	P	12.62	14.66
203 Tl	1082.30	P	50.15	4.63
205 Tl	2449.25	P	79.34	3.24
206 (Pb)	4463.26	P	74.30	1.66
207 (Pb)	3427.32	P	96.12	2.80
208 Pb	16452.98	P	119.40	0.73
209 Bi	1164494.00	A	11240.00	0.97
232 Th	15433.25	P	301.30	1.95
238 U	15964.07	P	275.90	1.73

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	543497.56	1.79	531519.69	102.3	60 - 125	
45 Sc	284532.56	0.40	282316.44	100.8	60 - 125	
45 Sc	808655.38	0.64	802725.75	100.7	60 - 125	
74 Ge	109800.95	0.68	109028.65	100.7	60 - 125	
74 Ge	20300.95	1.88	20216.41	100.4	60 - 125	
74 Ge	210700.72	0.87	209704.94	100.5	60 - 125	
89 Y	1170989.90	1.25	1159007.90	101.0	60 - 125	
115 In	1288769.00	2.56	1277748.90	100.9	60 - 125	
159 Tb	1905226.40	1.18	1896321.40	100.5	60 - 125	
209 Bi	1164494.10	0.97	1156151.50	100.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\011CALS.D\011CALS.D#
Date Acquired: Mar 25 2009 12:54 pm
Operator: BB
Sample Name: Cal Std 1.0/100
Misc Info: 1/100 ms cal std 00054
Vial Number: 4502
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:52 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	527915.69	A	4743.00	0.90
7 (Li)	45497.52	P	471.70	1.04
9 Be	2781.51	P	56.80	2.04
11 B	6428.46	P	223.70	3.48
23 Na	265265.41	P	1954.00	0.74
24 Mg	174661.41	P	768.00	0.44
27 Al	16726.68	P	60.60	0.36
39 K	12903.46	P	242.10	1.88
40 Ca	380275.69	P	1570.00	0.41
45 Sc	283047.91	P	1506.00	0.53
45 Sc	21897.25	P	585.10	2.67
45 Sc	795244.00	A	8035.00	1.01
47 Ti	1066.76	P	93.34	8.75
51 V	1186.74	P	37.24	3.14
52 Cr	1729.77	P	44.93	2.60
55 Mn	207497.80	P	54.84	0.03
56 Fe	772530.88	A	2277.00	0.29
59 Co	14213.83	P	277.20	1.95
60 Ni	753.37	P	53.49	7.10
63 Cu	1963.51	P	86.49	4.40
65 Cu	1012.28	P	37.83	3.74
65 Cu	3445.04	P	44.04	1.28
66 Zn	2364.76	P	19.53	0.83
68 Zn	1811.31	P	37.92	2.09
70 Ge	53387.78	P	307.20	0.58
70 Ge	8785.32	P	254.90	2.90
70 Ge	105437.70	P	1173.00	1.11
72 Ge	147570.80	P	1303.00	0.88
74 Ge	109890.70	P	330.90	0.30
74 Ge	20350.36	P	773.30	3.80
74 Ge	208515.91	P	2045.00	0.98
75 As	152.22	P	10.52	6.91
78 Se	241.34	P	4.91	2.03
88 Sr	20814.48	P	131.00	0.63
89 Y	1148147.00	A	8089.00	0.70
90 Zr	99684.80	P	1255.00	1.26
91 Zr	22390.61	P	226.60	1.01
95 Mo	3557.30	P	131.00	3.68
107 Ag	10619.40	P	187.80	1.77
111 Cd	2394.86	P	34.74	1.45
115 In	1254381.00	A	14300.00	1.14
118 Sn	6779.93	P	62.59	0.92
121 Sb	7797.19	P	239.50	3.07
137 Ba	3282.81	P	123.90	3.77
159 Tb	1859844.00	A	18550.00	1.00
166 Er	32.22	P	5.09	15.80
201 Hg	66.44	P	4.50	6.77
202 Hg	158.56	P	16.41	10.35
203 Tl	1923.53	P	124.20	6.46
205 Tl	4641.12	P	12.03	0.26
206 (Pb)	8344.47	P	45.31	0.54
207 (Pb)	6275.29	P	131.20	2.09
208 Pb	30890.66	P	323.70	1.05
209 Bi	1137016.00	A	9134.00	0.80
232 Th	29765.38	P	678.40	2.28
238 U	29980.64	P	435.20	1.45

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	527915.75	0.90	531519.69	99.3	60 - 125	
45 Sc	283047.91	0.53	282316.44	100.3	60 - 125	
45 Sc	795244.00	1.01	802725.75	99.1	60 - 125	
74 Ge	109890.72	0.30	109028.65	100.8	60 - 125	
74 Ge	20350.36	3.80	20216.41	100.7	60 - 125	
74 Ge	208515.92	0.98	209704.94	99.4	60 - 125	
89 Y	1148147.40	0.70	1159007.90	99.1	60 - 125	
115 In	1254381.10	1.14	1277748.90	98.2	60 - 125	
159 Tb	1859843.50	1.00	1896321.40	98.1	60 - 125	
209 Bi	1137016.30	0.80	1156151.50	98.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\012CALS.D\012CALS.D#
Date Acquired: Mar 25 2009 01:01 pm
Operator: BB
Sample Name: Cal Std 50/5000
Misc Info: 1/2 ms cal std 00054
Vial Number: 4503
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 12:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	493337.00	A	9250.00	1.88
7 (Li)	659607.13	A	1731.00	0.26
9 Be	137309.30	P	968.80	0.71
11 B	262397.41	P	2279.00	0.87
23 Na	11501750.00	A	215100.00	1.87
24 Mg	8116497.00	A	71770.00	0.88
27 Al	766229.00	A	10460.00	1.37
39 K	556715.88	A	16210.00	2.91
40 Ca	18095400.00	A	228800.00	1.26
45 Sc	272260.59	P	1941.00	0.71
45 Sc	21707.66	P	459.40	2.12
45 Sc	777774.38	A	9027.00	1.16
47 Ti	53961.18	P	397.00	0.74
51 V	58494.52	P	1614.00	2.76
52 Cr	78908.64	P	1367.00	1.73
55 Mn	10374370.00	A	26660.00	0.26
56 Fe	35212752.00	A	293400.00	0.83
59 Co	748482.69	A	5695.00	0.76
60 Ni	33916.49	P	721.90	2.13
63 Cu	91530.00	P	2254.00	2.46
65 Cu	45953.20	P	829.50	1.81
65 Cu	157763.00	P	773.80	0.49
66 Zn	106826.40	P	573.00	0.54
68 Zn	75219.38	P	1258.00	1.67
70 Ge	53178.78	P	458.70	0.86
70 Ge	9145.57	P	406.30	4.44
70 Ge	106292.20	P	473.10	0.45
72 Ge	145227.70	P	920.70	0.63
74 Ge	106066.60	P	897.60	0.85
74 Ge	19778.30	P	331.30	1.68
74 Ge	203335.20	P	2385.00	1.17
75 As	7370.91	P	191.60	2.60
78 Se	11539.09	P	60.70	0.53
88 Sr	1054334.00	A	9482.00	0.90
89 Y	1118735.00	A	13400.00	1.20
90 Zr	6261675.00	A	63420.00	1.01
91 Zr	1431416.00	A	10840.00	0.76
95 Mo	176199.30	P	2778.00	1.58
107 Ag	514181.19	P	4535.00	0.88
111 Cd	115138.80	P	882.90	0.77
115 In	1219375.00	A	26250.00	2.15
118 Sn	327292.91	P	4386.00	1.34
121 Sb	385286.81	P	5386.00	1.40
137 Ba	162625.59	P	1926.00	1.18
159 Tb	1827007.00	A	15180.00	0.83
166 Er	35.56	P	7.70	21.65
201 Hg	2905.26	P	83.92	2.89
202 Hg	6532.17	P	53.87	0.82
203 Tl	89923.68	P	868.20	0.97
205 Tl	213140.09	P	2623.00	1.23
206 (Pb)	400418.00	P	3199.00	0.80
207 (Pb)	305222.19	P	2313.00	0.76
208 Pb	1523142.00	A	4424.00	0.29
209 Bi	1081016.00	A	7298.00	0.68
232 Th	1570350.00	A	18370.00	1.17
238 U	1547835.00	A	30060.00	1.94

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	493336.97	1.88	531519.69	92.8	60 - 125	
45 Sc	272260.59	0.71	282316.44	96.4	60 - 125	
45 Sc	777774.38	1.16	802725.75	96.9	60 - 125	
74 Ge	106066.59	0.85	109028.65	97.3	60 - 125	
74 Ge	19778.30	1.68	20216.41	97.8	60 - 125	
74 Ge	203335.23	1.17	209704.94	97.0	60 - 125	
89 Y	1118735.40	1.20	1159007.90	96.5	60 - 125	
115 In	1219375.00	2.15	1277748.90	95.4	60 - 125	
159 Tb	1827007.30	0.83	1896321.40	96.3	60 - 125	
209 Bi	1081015.60	0.68	1156151.50	93.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\013CALS.D\013CALS.D#
Date Acquired: Mar 25 2009 01:07 pm
Operator: BB
Sample Name: Cal Std 100/10000
Misc Info: ms cal std 00054
Vial Number: 4504
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:06 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	465793.31	A	6478.00	1.39
7 (Li)	1218261.00	A	10060.00	0.83
9 Be	265741.50	P	2329.00	0.88
11 B	515011.91	A	13100.00	2.54
23 Na	21769590.00	A	126900.00	0.58
24 Mg	15324980.00	A	208900.00	1.36
27 Al	1445480.00	A	22680.00	1.57
39 K	1094803.00	A	30630.00	2.80
40 Ca	34719360.00	A	482300.00	1.39
45 Sc	261823.70	P	1512.00	0.58
45 Sc	21230.62	P	493.60	2.32
45 Sc	762105.13	A	10790.00	1.42
47 Ti	105547.20	P	58.38	0.06
51 V	114010.30	P	2646.00	2.32
52 Cr	152809.91	P	3200.00	2.09
55 Mn	20131990.00	A	98820.00	0.49
56 Fe	67713880.00	A	707200.00	1.04
59 Co	1447691.00	A	14010.00	0.97
60 Ni	65093.21	P	908.60	1.40
63 Cu	176511.30	P	4114.00	2.33
65 Cu	88327.07	P	1575.00	1.78
65 Cu	305581.50	P	3086.00	1.01
66 Zn	206497.50	P	1759.00	0.85
68 Zn	145565.70	P	969.80	0.67
70 Ge	53131.98	P	779.10	1.47
70 Ge	9355.72	P	44.77	0.48
70 Ge	105245.20	P	375.20	0.36
72 Ge	142083.70	P	1466.00	1.03
74 Ge	103157.70	P	971.50	0.94
74 Ge	19042.75	P	534.10	2.80
74 Ge	198737.00	P	1357.00	0.68
75 As	14412.86	P	236.40	1.64
78 Se	22284.06	P	239.10	1.07
88 Sr	2024951.00	A	13590.00	0.67
89 Y	1091959.00	A	14790.00	1.35
90 Zr	12356610.00	A	129900.00	1.05
91 Zr	2763397.00	A	27620.00	1.00
95 Mo	344927.00	P	2955.00	0.86
107 Ag	997381.69	A	8188.00	0.82
111 Cd	220637.09	P	1900.00	0.86
115 In	1161736.00	A	13550.00	1.17
118 Sn	635318.81	P	6255.00	0.98
121 Sb	785030.00	A	7417.00	0.94
137 Ba	315350.19	P	2484.00	0.79
159 Tb	1769570.00	A	21660.00	1.22
166 Er	27.78	P	5.09	18.33
201 Hg	5723.97	P	85.66	1.50
202 Hg	12921.92	P	184.30	1.43
203 Tl	175654.91	P	2516.00	1.43
205 Tl	412629.81	P	6335.00	1.53
206 (Pb)	811597.88	A	13750.00	1.69
207 (Pb)	590833.63	P	7842.00	1.33
208 Pb	2985175.00	A	29560.00	0.99
209 Bi	1044727.00	A	15020.00	1.44
232 Th	3010872.00	A	21520.00	0.71
238 U	2982947.00	A	35820.00	1.20

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	465793.28	1.39	531519.69	87.6	60 - 125	
45 Sc	261823.73	0.58	282316.44	92.7	60 - 125	
45 Sc	762105.13	1.42	802725.75	94.9	60 - 125	
74 Ge	103157.71	0.94	109028.65	94.6	60 - 125	
74 Ge	19042.75	2.80	20216.41	94.2	60 - 125	
74 Ge	198737.02	0.68	209704.94	94.8	60 - 125	
89 Y	1091958.50	1.35	1159007.90	94.2	60 - 125	
115 In	1161735.80	1.17	1277748.90	90.9	60 - 125	
159 Tb	1769570.60	1.22	1896321.40	93.3	60 - 125	
209 Bi	1044726.60	1.44	1156151.50	90.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\014_BLK.D\014_BLK.D#
Date Acquired: Mar 25 2009 01:14 pm
Operator: BB
Sample Name: BLANK
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: Blank
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.02486 ug/l	34.98	#VALUE!	
11 B	2.007 ug/l	9.87	#VALUE!	
23 Na	11.78 ug/l	1.97	#VALUE!	
24 Mg	5.211 ug/l	1.51	#VALUE!	
27 Al	3.832 ug/l	0.74	#VALUE!	
39 K	7.716 ug/l	14.68	#VALUE!	
40 Ca	7.559 ug/l	1.89	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.0783 ug/l	43.49	#VALUE!	
51 V	0.03404 ug/l	27.49	#VALUE!	
52 Cr	0.0257 ug/l	23.81	#VALUE!	
55 Mn	0.2723 ug/l	21.91	#VALUE!	
56 Fe	6.223 ug/l	1.31	#VALUE!	
59 Co	0.03136 ug/l	28.27	#VALUE!	
60 Ni	0.04922 ug/l	17.35	#VALUE!	
63 Cu	0.06657 ug/l	5.77	#VALUE!	
65 Cu	0.05133 ug/l	7.59	#VALUE!	
65 Cu	0.06369 ug/l	15.47	#VALUE!	
66 Zn	0.06826 ug/l	32.39	#VALUE!	
68 Zn	0.04798 ug/l	23.26	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.07382 ug/l	20.39	#VALUE!	
78 Se	0.1052 ug/l	5.37	#VALUE!	
88 Sr	0.05318 ug/l	11.65	#VALUE!	
90 Zr	0.5634 ug/l	7.97	#VALUE!	
91 Zr	0.5679 ug/l	11.78	#VALUE!	
95 Mo	0.2765 ug/l	8.08	#VALUE!	
107 Ag	0.03232 ug/l	34.65	#VALUE!	
111 Cd	0.02568 ug/l	19.18	#VALUE!	
118 Sn	0.1555 ug/l	3.83	#VALUE!	
121 Sb	0.06499 ug/l	10.63	#VALUE!	
137 Ba	0.04068 ug/l	25.79	#VALUE!	
201 Hg	0.06471 ug/l	11.64	#VALUE!	
202 Hg	0.06541 ug/l	4.98	#VALUE!	
203 Tl	0.08043 ug/l	13.13	#VALUE!	
205 Tl	0.08075 ug/l	4.56	#VALUE!	
208 Pb	0.04142 ug/l	9.91	#VALUE!	
232 Th	0.0869 ug/l	12.05	#VALUE!	
238 U	0.03555 ug/l	19.15	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	508076.34	2.66	531519.69	95.6	60 - 125	
45 Sc	265947.19	0.44	282316.44	94.2	60 - 125	
45 Sc	777010.19	1.60	802725.75	96.8	60 - 125	
74 Ge	106588.31	0.52	109028.65	97.8	60 - 125	
74 Ge	19855.85	3.13	20216.41	98.2	60 - 125	
74 Ge	205310.94	1.88	209704.94	97.9	60 - 125	
89 Y	1116789.50	1.50	1159007.90	96.4	60 - 125	
115 In	1217652.90	1.52	1277748.90	95.3	60 - 125	
159 Tb	1812255.60	1.66	1896321.40	95.6	60 - 125	
209 Bi	1098456.60	1.51	1156151.50	95.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

ICV QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\015_ICV.D\015_ICV.D#
Date Acquired: Mar 25 2009 01:21 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: ICV
Misc Info: MS ICVWK 000039
Vial Number: 4505
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: ICV
Dilution Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	39.3 ug/l	1.82	40.00	90 - 110	
11 B	76.37 ug/l	1.41	80.00	90 - 110	
23 Na	4058 ug/l	0.24	4000.00	90 - 110	
24 Mg	4095 ug/l	0.62	4000.00	90 - 110	
27 Al	407.4 ug/l	0.87	400.00	90 - 110	
39 K	3844 ug/l	1.20	4000.00	90 - 110	
40 Ca	3972 ug/l	0.30	4000.00	90 - 110	
45 Sc	--------- ug/l	---------	---	90 - 110	
47 Ti	39.17 ug/l	0.54	40.00	90 - 110	
51 V	40.11 ug/l	1.68	40.00	90 - 110	
52 Cr	39.12 ug/l	1.78	40.00	90 - 110	
55 Mn	403.8 ug/l	0.89	400.00	90 - 110	
56 Fe	4067 ug/l	0.13	4000.00	90 - 110	
59 Co	37.92 ug/l	0.92	40.00	90 - 110	
60 Ni	40.45 ug/l	2.35	40.00	90 - 110	
63 Cu	37.37 ug/l	2.51	40.00	90 - 110	
65 Cu	37.41 ug/l	3.00	40.00	90 - 110	
65 Cu	37.6 ug/l	0.64	40.00	90 - 110	
66 Zn	40.49 ug/l	0.28	40.00	90 - 110	
68 Zn	40.92 ug/l	0.54	40.00	90 - 110	
70 Ge	--------- ug/l	---------	---	90 - 110	
75 As	40.54 ug/l	1.88	40.00	90 - 110	
78 Se	40.26 ug/l	0.79	40.00	90 - 110	
88 Sr	42.4 ug/l	0.45	40.00	90 - 110	
90 Zr	8.653 ug/l	13.18	40.00	90 - 110	FAIL
91 Zr	8.667 ug/l	13.14	40.00	90 - 110	FAIL
95 Mo	39.25 ug/l	0.52	40.00	90 - 110	
107 Ag	39.26 ug/l	0.90	40.00	90 - 110	
111 Cd	40.92 ug/l	0.79	40.00	90 - 110	
118 Sn	37.66 ug/l	0.64	40.00	90 - 110	
121 Sb	37.49 ug/l	0.50	40.00	90 - 110	
137 Ba	40.33 ug/l	0.63	40.00	90 - 110	
201 Hg	2.012 ug/l	0.83	2.00	90 - 110	
202 Hg	2.032 ug/l	0.13	2.00	90 - 110	
203 Tl	8.131 ug/l	1.13	8.00	90 - 110	
205 Tl	8.183 ug/l	0.93	8.00	90 - 110	
208 Pb	38.96 ug/l	1.34	40.00	90 - 110	
232 Th	0.1111 ug/l	14.63	40.00	90 - 110	
238 U	0.006164 ug/l	13.22	40.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	496227.22	1.79	531519.69	93.4	60 - 125	
45 Sc	268559.69	0.70	282316.44	95.1	60 - 125	
45 Sc	760001.69	0.85	802725.75	94.7	60 - 125	
74 Ge	105585.27	1.13	109028.65	96.8	60 - 125	
74 Ge	19513.85	4.24	20216.41	96.5	60 - 125	
74 Ge	199765.88	0.78	209704.94	95.3	60 - 125	
89 Y	1088258.90	0.58	1159007.90	93.9	60 - 125	
115 In	1183370.50	0.66	1277748.90	92.6	60 - 125	
159 Tb	1787055.40	1.10	1896321.40	94.2	60 - 125	
209 Bi	1067874.50	1.50	1156151.50	92.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\016_CCB.D\016_CCB.D#
Date Acquired: Mar 25 2009 01:28 pm
Operator: BB
Sample Name: ICB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.04398 ug/l	21.36	#VALUE!	
11 B	1.161 ug/l	10.53	#VALUE!	
23 Na	3.199 ug/l	4.49	#VALUE!	
24 Mg	3.021 ug/l	3.36	#VALUE!	
27 Al	0.2707 ug/l	19.15	#VALUE!	
39 K	3.759 ug/l	17.52	#VALUE!	
40 Ca	2.971 ug/l	2.77	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.02762 ug/l	66.15	#VALUE!	
51 V	0.01684 ug/l	68.23	#VALUE!	
52 Cr	0.02217 ug/l	36.42	#VALUE!	
55 Mn	0.3693 ug/l	6.88	#VALUE!	
56 Fe	3.6 ug/l	2.88	#VALUE!	
59 Co	0.0361 ug/l	2.69	#VALUE!	
60 Ni	0.03848 ug/l	19.34	#VALUE!	
63 Cu	0.03183 ug/l	12.25	#VALUE!	
65 Cu	0.03859 ug/l	15.60	#VALUE!	
65 Cu	0.03474 ug/l	6.65	#VALUE!	
66 Zn	0.04997 ug/l	63.48	#VALUE!	
68 Zn	0.02185 ug/l	151.58	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.05445 ug/l	20.99	#VALUE!	
78 Se	0.0623 ug/l	18.75	#VALUE!	
88 Sr	0.03568 ug/l	3.72	#VALUE!	
90 Zr	0.2302 ug/l	9.06	#VALUE!	
91 Zr	0.2221 ug/l	13.99	#VALUE!	
95 Mo	0.1331 ug/l	11.68	#VALUE!	
107 Ag	0.03835 ug/l	7.31	#VALUE!	
111 Cd	0.02944 ug/l	43.44	#VALUE!	
118 Sn	0.08607 ug/l	11.31	#VALUE!	
121 Sb	0.2002 ug/l	5.41	#VALUE!	
137 Ba	0.02735 ug/l	17.86	#VALUE!	
201 Hg	0.05101 ug/l	7.35	#VALUE!	
202 Hg	0.0477 ug/l	3.06	#VALUE!	
203 Tl	0.03804 ug/l	11.66	#VALUE!	
205 Tl	0.03422 ug/l	1.55	#VALUE!	
208 Pb	0.04161 ug/l	2.55	#VALUE!	
232 Th	0.02555 ug/l	2.99	#VALUE!	
238 U	0.02668 ug/l	15.49	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	493578.00	2.37	531519.69	92.9	60 - 125	
45 Sc	266541.72	0.84	282316.44	94.4	60 - 125	
45 Sc	769245.00	1.51	802725.75	95.8	60 - 125	
74 Ge	105134.05	0.99	109028.65	96.4	60 - 125	
74 Ge	19747.90	2.96	20216.41	97.7	60 - 125	
74 Ge	203980.81	1.47	209704.94	97.3	60 - 125	
89 Y	1110640.00	1.17	1159007.90	95.8	60 - 125	
115 In	1209149.50	0.54	1277748.90	94.6	60 - 125	
159 Tb	1786900.40	0.68	1896321.40	94.2	60 - 125	
209 Bi	1092524.30	1.12	1156151.50	94.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

QCS QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\017_QCS.D\017_QCS.D#
Date Acquired: Mar 25 2009 01:35 pm
Operator: BB
Sample Name: RL
Misc Info: ms rl wk_00075
Vial Number: 4506
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: QCS
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected	QC Range(%)	Flag
7 (Li)	1.01 ug/l	6.25	---	##### - #####	
9 Be	0.11 ug/l	5.76	---	##### - #####	
11 B	5.12 ug/l	1.15	---	##### - #####	
23 Na	50.76 ug/l	1.83	---	##### - #####	
24 Mg	50.28 ug/l	0.61	---	##### - #####	
27 Al	10.22 ug/l	1.82	---	##### - #####	
39 K	48.09 ug/l	1.76	---	##### - #####	
40 Ca	50.38 ug/l	0.26	---	##### - #####	
45 Sc	-------- ug/l	--------	---	##### - #####	
47 Ti	0.97 ug/l	4.27	---	##### - #####	
51 V	1.05 ug/l	3.38	---	##### - #####	
52 Cr	0.95 ug/l	7.14	---	##### - #####	
55 Mn	0.98 ug/l	1.03	---	##### - #####	
56 Fe	5.27 ug/l	0.43	---	##### - #####	
59 Co	0.96 ug/l	1.50	---	##### - #####	
60 Ni	1.01 ug/l	3.62	---	##### - #####	
63 Cu	1.03 ug/l	2.13	---	##### - #####	
65 Cu	0.98 ug/l	4.35	---	##### - #####	
65 Cu	1.07 ug/l	1.25	---	##### - #####	
66 Zn	1.08 ug/l	2.69	---	##### - #####	
68 Zn	0.97 ug/l	3.63	---	##### - #####	
70 Ge	--------- ug/l	---------	---	##### - #####	
70 Ge	--------- ug/l	---------	---	##### - #####	
70 Ge	--------- ug/l	---------	---	##### - #####	
72 Ge	--------- ug/l	---------	---	##### - #####	
75 As	1.04 ug/l	4.19	---	##### - #####	
78 Se	0.50 ug/l	2.95	---	##### - #####	
88 Sr	0.97 ug/l	0.61	---	##### - #####	
90 Zr	6.31 ug/l	1.50	---	##### - #####	
91 Zr	6.19 ug/l	0.54	---	##### - #####	
95 Mo	0.99 ug/l	1.74	---	##### - #####	
107 Ag	1.03 ug/l	2.24	---	##### - #####	
111 Cd	0.48 ug/l	0.73	---	##### - #####	
118 Sn	1.12 ug/l	2.47	---	##### - #####	
121 Sb	0.52 ug/l	2.26	---	##### - #####	
137 Ba	0.97 ug/l	4.43	---	##### - #####	
166 Er	-------- ug/l	--------	---	##### - #####	
201 Hg	0.10 ug/l	4.59	---	##### - #####	
202 Hg	0.10 ug/l	1.84	---	##### - #####	
203 Tl	0.22 ug/l	3.23	---	##### - #####	
205 Tl	0.21 ug/l	4.05	---	##### - #####	
206 (Pb)	--------- ug/l	---------	---	##### - #####	
207 (Pb)	--------- ug/l	---------	---	##### - #####	
208 Pb	0.29 ug/l	1.54	---	##### - #####	
232 Th	0.88 ug/l	1.04	---	##### - #####	
238 U	0.94 ug/l	0.57	---	##### - #####	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	522013.16	2.73	531519.69	98.2	60 - 125	
45 Sc	266870.63	0.64	282316.44	94.5	60 - 125	
45 Sc	780725.69	1.78	802725.75	97.3	60 - 125	
74 Ge	105710.55	0.69	109028.65	97.0	60 - 125	
74 Ge	19863.63	3.03	20216.41	98.3	60 - 125	
74 Ge	205266.56	0.83	209704.94	97.9	60 - 125	
89 Y	1116175.80	2.57	1159007.90	96.3	60 - 125	
115 In	1244604.00	1.15	1277748.90	97.4	60 - 125	
159 Tb	1846896.30	1.03	1896321.40	97.4	60 - 125	
209 Bi	1126023.30	1.05	1156151.50	97.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failure: 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\018SMPL.D\018SMPL.D#
Date Acquired:	Mar 25 2009 01:41 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RL 1/5
Misc Info:	1/5 ms rl wk_00075
Vial Number:	4507
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	5.00
Autodil Factor:	Undiluted
Final Dil Factor:	5.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.09115	0.01823	ug/l	10.43	#VALUE!	
11 B	# 3	6.55	1.31	ug/l	4.33	#VALUE!	
23 Na	# 1	52.65	10.53	ug/l	2.87	#VALUE!	
24 Mg	# 1	52.65	10.53	ug/l	0.88	#VALUE!	
27 Al	# 1	12.335	2.467	ug/l	2.56	#VALUE!	
39 K	# 2	41.72	8.344	ug/l	8.66	#VALUE!	
40 Ca	# 1	52.7	10.54	ug/l	1.71	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	0.969	0.1938	ug/l	10.40	#VALUE!	
51 V	# 2	1.0815	0.2163	ug/l	6.92	#VALUE!	
52 Cr	# 2	0.9415	0.1883	ug/l	8.63	#VALUE!	
55 Mn	# 3	1.029	0.2058	ug/l	2.61	#VALUE!	
56 Fe	# 1	5.835	1.167	ug/l	3.09	#VALUE!	
59 Co	# 3	0.982	0.1964	ug/l	0.92	#VALUE!	
60 Ni	# 2	1.005	0.201	ug/l	5.44	#VALUE!	
63 Cu	# 2	1.1255	0.2251	ug/l	3.99	#VALUE!	
65 Cu	# 2	1.114	0.2228	ug/l	7.53	#VALUE!	
65 Cu	# 3	1.1125	0.2225	ug/l	7.18	#VALUE!	
66 Zn	# 3	1.0895	0.2179	ug/l	6.96	#VALUE!	
68 Zn	# 3	1.0855	0.2171	ug/l	19.06	#VALUE!	
70 Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75 As	# 2	1.1475	0.2295	ug/l	5.25	#VALUE!	
78 Se	# 1	0.49315	0.09863	ug/l	27.36	#VALUE!	
88 Sr	# 3	0.971	0.1942	ug/l	3.11	#VALUE!	
90 Zr	# 3	7.525	1.505	ug/l	2.34	#VALUE!	
91 Zr	# 3	7.59	1.518	ug/l	2.52	#VALUE!	
95 Mo	# 3	1.0915	0.2183	ug/l	9.50	#VALUE!	
107 Ag	# 3	1.0775	0.2155	ug/l	4.00	#VALUE!	
111 Cd	# 3	0.4921	0.09842	ug/l	14.82	#VALUE!	
118 Sn	# 3	1.2415	0.2483	ug/l	3.29	#VALUE!	
121 Sb	# 3	0.6395	0.1279	ug/l	4.51	#VALUE!	
137 Ba	# 3	0.928	0.1856	ug/l	10.88	#VALUE!	
201 Hg	# 3	0.15855	0.03171	ug/l	12.15	#VALUE!	
202 Hg	# 3	0.17	0.034	ug/l	1.75	#VALUE!	
203 Tl	# 3	0.24615	0.04923	ug/l	6.16	#VALUE!	
205 Tl	# 3	0.2413	0.04826	ug/l	8.57	#VALUE!	
208 Pb	# 3	0.31305	0.06261	ug/l	6.05	#VALUE!	
232 Th	# 3	0.9565	0.1913	ug/l	0.94	#VALUE!	
238 U	# 3	0.953	0.1906	ug/l	2.30	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	547715.75	1.36	531519.69	103.0	60 - 125	
45 Sc	# 1	281034.72	0.84	282316.44	99.5	60 - 125	
45 Sc	# 3	814037.13	1.34	802725.75	101.4	60 - 125	
74 Ge	# 1	109378.35	0.78	109028.65	100.3	60 - 125	
74 Ge	# 2	20534.33	2.66	20216.41	101.6	60 - 125	
74 Ge	# 3	210673.69	1.50	209704.94	100.5	60 - 125	
89 Y	# 3	1164797.50	1.71	1159007.90	100.5	60 - 125	
115 In	# 3	1288858.10	1.00	1277748.90	100.9	60 - 125	
159 Tb	# 3	1899899.10	1.00	1896321.40	100.2	60 - 125	
209 Bi	# 3	1169986.40	1.40	1156151.50	101.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\019SMPL.D\019SMPL.D#
Date Acquired:	Mar 25 2009 01:48 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RL 1/10
Misc Info:	1/10 ms rl wk_00075
Vial Number:	4508
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	10.00
Autodil Factor:	Undiluted
Final Dil Factor:	10.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.1131	0.01131	ug/l	25.33	#VALUE!	
11 B	# 3	7.376	0.7376	ug/l	5.62	#VALUE!	
23 Na	# 1	54.47	5.447	ug/l	2.45	#VALUE!	
24 Mg	# 1	54.16	5.416	ug/l	1.11	#VALUE!	
27 Al	# 1	16.98	1.698	ug/l	7.89	#VALUE!	
39 K	# 2	47.42	4.742	ug/l	21.04	#VALUE!	
40 Ca	# 1	67.88	6.788	ug/l	1.65	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.9653	0.09653	ug/l	7.52	#VALUE!	
51 V	# 2	0.8318	0.08318	ug/l	15.30	#VALUE!	
52 Cr	# 2	1.025	0.1025	ug/l	8.00	#VALUE!	
55 Mn	# 3	1.158	0.1158	ug/l	5.91	#VALUE!	
56 Fe	# 1	9.15	0.915	ug/l	0.47	#VALUE!	
59 Co	# 3	0.9976	0.09976	ug/l	7.58	#VALUE!	
60 Ni	# 2	1.024	0.1024	ug/l	9.99	#VALUE!	
63 Cu	# 2	1.103	0.1103	ug/l	11.69	#VALUE!	
65 Cu	# 2	1.216	0.1216	ug/l	8.36	#VALUE!	
65 Cu	# 3	1.363	0.1363	ug/l	6.62	#VALUE!	
66 Zn	# 3	1.059	0.1059	ug/l	25.31	#VALUE!	
68 Zn	# 3	0.9995	0.09995	ug/l	24.27	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	1.079	0.1079	ug/l	13.23	#VALUE!	
78 Se	# 1	0.5786	0.05786	ug/l	17.49	#VALUE!	
88 Sr	# 3	1.023	0.1023	ug/l	3.53	#VALUE!	
90 Zr	# 3	7.949	0.7949	ug/l	0.36	#VALUE!	
91 Zr	# 3	7.962	0.7962	ug/l	6.15	#VALUE!	
95 Mo	# 3	1.189	0.1189	ug/l	3.42	#VALUE!	
107 Ag	# 3	1.089	0.1089	ug/l	5.20	#VALUE!	
111 Cd	# 3	0.4736	0.04736	ug/l	13.65	#VALUE!	
118 Sn	# 3	1.225	0.1225	ug/l	0.58	#VALUE!	
121 Sb	# 3	0.6733	0.06733	ug/l	2.15	#VALUE!	
137 Ba	# 3	1.125	0.1125	ug/l	11.16	#VALUE!	
201 Hg	# 3	0.2183	0.02183	ug/l	3.50	#VALUE!	
202 Hg	# 3	0.2465	0.02465	ug/l	11.82	#VALUE!	
203 Tl	# 3	0.2539	0.02539	ug/l	8.05	#VALUE!	
205 Tl	# 3	0.2287	0.02287	ug/l	3.66	#VALUE!	
208 Pb	# 3	0.3338	0.03338	ug/l	7.59	#VALUE!	
232 Th	# 3	0.9678	0.09678	ug/l	4.34	#VALUE!	
238 U	# 3	0.9282	0.09282	ug/l	0.66	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	547857.94	1.05	531519.69	103.1	60 - 125	
45 Sc	# 1	287041.13	0.52	282316.44	101.7	60 - 125	
45 Sc	# 3	819628.56	0.38	802725.75	102.1	60 - 125	
74 Ge	# 1	110762.49	1.36	109028.65	101.6	60 - 125	
74 Ge	# 2	20806.98	4.11	20216.41	102.9	60 - 125	
74 Ge	# 3	211250.56	1.05	209704.94	100.7	60 - 125	
89 Y	# 3	1177282.10	1.15	1159007.90	101.6	60 - 125	
115 In	# 3	1296105.00	1.23	1277748.90	101.4	60 - 125	
159 Tb	# 3	1924897.60	0.91	1896321.40	101.5	60 - 125	
209 Bi	# 3	1176210.30	0.87	1156151.50	101.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\020SMPL.D\020SMPL.D#
Date Acquired:	Mar 25 2009 01:55 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RL 1/50
Misc Info:	1/50 ms rl wk_00075
Vial Number:	4509
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	50.00
Autodil Factor:	Undiluted
Final Dil Factor:	50.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.19845	0.003969	ug/l	55.98	#VALUE!	
11	B	# 3	13.88	0.2776	ug/l	17.45	#VALUE!	
23	Na	# 1	99.7	1.994	ug/l	5.54	#VALUE!	
24	Mg	# 1	73.95	1.479	ug/l	2.27	#VALUE!	
27	Al	# 1	39.46	0.7892	ug/l	13.25	#VALUE!	
39	K	# 2	-13.78	-0.2756	ug/l	226.49	#VALUE!	
40	Ca	# 1	135.6	2.712	ug/l	1.35	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	1.4705	0.02941	ug/l	16.74	#VALUE!	
51	V	# 2	0.71	0.0142	ug/l	58.63	#VALUE!	
52	Cr	# 2	1.1645	0.02329	ug/l	5.93	#VALUE!	
55	Mn	# 3	1.4855	0.02971	ug/l	5.30	#VALUE!	
56	Fe	# 1	15.385	0.3077	ug/l	2.23	#VALUE!	
59	Co	# 3	1.0195	0.02039	ug/l	22.58	#VALUE!	
60	Ni	# 2	2.4185	0.04837	ug/l	34.51	#VALUE!	
63	Cu	# 2	1.9085	0.03817	ug/l	3.37	#VALUE!	
65	Cu	# 2	1.3755	0.02751	ug/l	10.19	#VALUE!	
65	Cu	# 3	1.825	0.0365	ug/l	28.49	#VALUE!	
66	Zn	# 3	11.12	0.2224	ug/l	15.12	#VALUE!	
68	Zn	# 3	9.79	0.1958	ug/l	13.91	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	1.704	0.03408	ug/l	21.47	#VALUE!	
78	Se	# 1	0.976	0.01952	ug/l	28.92	#VALUE!	
88	Sr	# 3	1.1495	0.02299	ug/l	8.98	#VALUE!	
90	Zr	# 3	14.415	0.2883	ug/l	4.96	#VALUE!	
91	Zr	# 3	13.47	0.2694	ug/l	11.72	#VALUE!	
95	Mo	# 3	1.506	0.03012	ug/l	22.53	#VALUE!	
107	Ag	# 3	1.1825	0.02365	ug/l	9.76	#VALUE!	
111	Cd	# 3	0.814	0.01628	ug/l	22.54	#VALUE!	
118	Sn	# 3	1.7875	0.03575	ug/l	7.90	#VALUE!	
121	Sb	# 3	1.241	0.02482	ug/l	9.89	#VALUE!	
137	Ba	# 3	0.804	0.01608	ug/l	4.45	#VALUE!	
201	Hg	# 3	0.5675	0.01135	ug/l	6.86	#VALUE!	
202	Hg	# 3	0.672	0.01344	ug/l	11.53	#VALUE!	
203	Tl	# 3	0.4411	0.008822	ug/l	12.10	#VALUE!	
205	Tl	# 3	0.3344	0.006688	ug/l	10.95	#VALUE!	
208	Pb	# 3	0.41215	0.008243	ug/l	5.17	#VALUE!	
232	Th	# 3	1.341	0.02682	ug/l	4.41	#VALUE!	
238	U	# 3	1.0055	0.02011	ug/l	11.31	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	551502.38	0.76	531519.69	103.8	60 - 125	
45	Sc	# 1	285497.25	0.40	282316.44	101.1	60 - 125	
45	Sc	# 3	812957.44	0.97	802725.75	101.3	60 - 125	
74	Ge	# 1	110078.41	0.71	109028.65	101.0	60 - 125	
74	Ge	# 2	20782.86	3.01	20216.41	102.8	60 - 125	
74	Ge	# 3	209523.34	0.94	209704.94	99.9	60 - 125	
89	Y	# 3	1165708.10	0.84	1159007.90	100.6	60 - 125	
115	In	# 3	1293763.40	0.99	1277748.90	101.3	60 - 125	
159	Tb	# 3	1929279.10	1.21	1896321.40	101.7	60 - 125	
209	Bi	# 3	1163461.00	1.32	1156151.50	100.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\021SMPL.D\021SMPL.D#
Date Acquired:	Mar 25 2009 02:02 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	RL Zn B Fe
Misc Info:	MSBFEZN 000011
Vial Number:	4511
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.005423	0.005423	ug/l	33.60	#VALUE!	
11	B	# 3	19.67	19.67	ug/l	1.00	#VALUE!	
23	Na	# 1	1.284	1.284	ug/l	17.37	#VALUE!	
24	Mg	# 1	1.526	1.526	ug/l	2.12	#VALUE!	
27	Al	# 1	1.223	1.223	ug/l	6.42	#VALUE!	
39	K	# 2	-0.7083	-0.7083	ug/l	99.32	#VALUE!	
40	Ca	# 1	3.722	3.722	ug/l	2.95	#VALUE!	
45	Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47	Ti	# 3	0.01635	0.01635	ug/l	19.06	#VALUE!	
51	V	# 2	-0.004475	-0.004475	ug/l	172.76	#VALUE!	
52	Cr	# 2	-0.003018	-0.003018	ug/l	217.03	#VALUE!	
55	Mn	# 3	0.05845	0.05845	ug/l	11.23	#VALUE!	
56	Fe	# 1	21.02	21.02	ug/l	1.47	#VALUE!	
59	Co	# 3	0.00617	0.00617	ug/l	21.38	#VALUE!	
60	Ni	# 2	-0.0001748	-0.0001748	ug/l	1730.00	#VALUE!	
63	Cu	# 2	0.008627	0.008627	ug/l	83.36	#VALUE!	
65	Cu	# 2	0.008139	0.008139	ug/l	60.14	#VALUE!	
65	Cu	# 3	0.003125	0.003125	ug/l	277.50	#VALUE!	
66	Zn	# 3	4.344	4.344	ug/l	3.22	#VALUE!	
68	Zn	# 3	4.119	4.119	ug/l	1.48	#VALUE!	
70	Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75	As	# 2	0.0153	0.0153	ug/l	63.22	#VALUE!	
78	Se	# 1	0.008504	0.008504	ug/l	62.58	#VALUE!	
88	Sr	# 3	0.007061	0.007061	ug/l	11.79	#VALUE!	
90	Zr	# 3	0.1373	0.1373	ug/l	8.90	#VALUE!	
91	Zr	# 3	0.1374	0.1374	ug/l	11.12	#VALUE!	
95	Mo	# 3	0.01586	0.01586	ug/l	17.43	#VALUE!	
107	Ag	# 3	0.009517	0.009517	ug/l	37.43	#VALUE!	
111	Cd	# 3	0.005862	0.005862	ug/l	53.46	#VALUE!	
118	Sn	# 3	0.016	0.016	ug/l	15.03	#VALUE!	
121	Sb	# 3	0.01474	0.01474	ug/l	20.21	#VALUE!	
137	Ba	# 3	0.004664	0.004664	ug/l	91.92	#VALUE!	
201	Hg	# 3	0.007313	0.007313	ug/l	47.98	#VALUE!	
202	Hg	# 3	0.00835	0.00835	ug/l	8.39	#VALUE!	
203	Tl	# 3	0.004505	0.004505	ug/l	42.53	#VALUE!	
205	Tl	# 3	0.001803	0.001803	ug/l	41.12	#VALUE!	
208	Pb	# 3	0.006526	0.006526	ug/l	8.31	#VALUE!	
232	Th	# 3	0.008261	0.008261	ug/l	8.49	#VALUE!	
238	U	# 3	0.00463	0.00463	ug/l	3.22	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	550308.31	1.50	531519.69	103.5	60 - 125	
45	Sc	# 1	288658.56	1.34	282316.44	102.2	60 - 125	
45	Sc	# 3	818432.00	0.61	802725.75	102.0	60 - 125	
74	Ge	# 1	111682.16	1.55	109028.65	102.4	60 - 125	
74	Ge	# 2	20881.53	2.68	20216.41	103.3	60 - 125	
74	Ge	# 3	212926.73	1.54	209704.94	101.5	60 - 125	
89	Y	# 3	1176477.50	1.26	1159007.90	101.5	60 - 125	
115	In	# 3	1295653.90	1.08	1277748.90	101.4	60 - 125	
159	Tb	# 3	1930247.60	0.88	1896321.40	101.8	60 - 125	
209	Bi	# 3	1183764.30	1.37	1156151.50	102.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\022SMPL.D\022SMPL.D#
Date Acquired: Mar 25 2009 02:09 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: .5
Misc Info: 1/200 ms cal std 00054
Vial Number: 4501
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.5232	0.5232	ug/l	1.90	#VALUE!	
11 B	# 3	1.359	1.359	ug/l	3.34	#VALUE!	
23 Na	# 1	55.7	55.7	ug/l	1.15	#VALUE!	
24 Mg	# 1	56.88	56.88	ug/l	0.37	#VALUE!	
27 Al	# 1	6.053	6.053	ug/l	3.54	#VALUE!	
39 K	# 2	52.19	52.19	ug/l	0.77	#VALUE!	
40 Ca	# 1	54.86	54.86	ug/l	0.07	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	0.5851	0.5851	ug/l	2.64	#VALUE!	
51 V	# 2	0.5167	0.5167	ug/l	4.94	#VALUE!	
52 Cr	# 2	0.5349	0.5349	ug/l	2.78	#VALUE!	
55 Mn	# 3	5.147	5.147	ug/l	1.49	#VALUE!	
56 Fe	# 1	53.72	53.72	ug/l	0.67	#VALUE!	
59 Co	# 3	0.5045	0.5045	ug/l	2.78	#VALUE!	
60 Ni	# 2	0.5595	0.5595	ug/l	6.41	#VALUE!	
63 Cu	# 2	0.5817	0.5817	ug/l	1.98	#VALUE!	
65 Cu	# 2	0.5845	0.5845	ug/l	5.68	#VALUE!	
65 Cu	# 3	0.5545	0.5545	ug/l	4.32	#VALUE!	
66 Zn	# 3	0.6771	0.6771	ug/l	3.39	#VALUE!	
68 Zn	# 3	0.6527	0.6527	ug/l	5.66	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.547	0.547	ug/l	10.77	#VALUE!	
78 Se	# 1	0.5481	0.5481	ug/l	6.06	#VALUE!	
88 Sr	# 3	0.5063	0.5063	ug/l	0.94	#VALUE!	
90 Zr	# 3	3.485	3.485	ug/l	2.54	#VALUE!	
91 Zr	# 3	3.457	3.457	ug/l	2.49	#VALUE!	
95 Mo	# 3	0.4952	0.4952	ug/l	1.65	#VALUE!	
107 Ag	# 3	0.5388	0.5388	ug/l	1.96	#VALUE!	
111 Cd	# 3	0.5512	0.5512	ug/l	8.73	#VALUE!	
118 Sn	# 3	0.5087	0.5087	ug/l	3.74	#VALUE!	
121 Sb	# 3	0.4761	0.4761	ug/l	1.44	#VALUE!	
137 Ba	# 3	0.5112	0.5112	ug/l	3.04	#VALUE!	
201 Hg	# 3	0.03381	0.03381	ug/l	8.86	#VALUE!	
202 Hg	# 3	0.03392	0.03392	ug/l	2.28	#VALUE!	
203 Tl	# 3	0.1091	0.1091	ug/l	6.98	#VALUE!	
205 Tl	# 3	0.1119	0.1119	ug/l	5.10	#VALUE!	
208 Pb	# 3	0.5044	0.5044	ug/l	1.34	#VALUE!	
232 Th	# 3	0.4603	0.4603	ug/l	0.67	#VALUE!	
238 U	# 3	0.474	0.474	ug/l	0.94	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	552758.94	0.58	531519.69	104.0	60 - 125	
45 Sc	# 1	290124.97	0.62	282316.44	102.8	60 - 125	
45 Sc	# 3	826170.75	1.86	802725.75	102.9	60 - 125	
74 Ge	# 1	111382.34	0.41	109028.65	102.2	60 - 125	
74 Ge	# 2	20990.22	2.57	20216.41	103.8	60 - 125	
74 Ge	# 3	212016.95	0.58	209704.94	101.1	60 - 125	
89 Y	# 3	1180419.00	0.51	1159007.90	101.8	60 - 125	
115 In	# 3	1291328.40	0.78	1277748.90	101.1	60 - 125	
159 Tb	# 3	1936094.50	1.66	1896321.40	102.1	60 - 125	
209 Bi	# 3	1175851.10	1.38	1156151.50	101.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\023_CCV.D\023_CCV.D#
Date Acquired: Mar 25 2009 02:16 pm
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	48.09 ug/l	2.78	50.00	90 - 110	
11 B	# 3	96.71 ug/l	2.08	100.00	90 - 110	
23 Na	# 1	5011 ug/l	0.72	5000.00	90 - 110	
24 Mg	# 1	4971 ug/l	0.39	5000.00	90 - 110	
27 Al	# 1	497.7 ug/l	1.48	500.00	90 - 110	
39 K	# 2	4965 ug/l	2.86	5000.00	90 - 110	
40 Ca	# 1	4915 ug/l	0.31	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------	---	##### - #####	
47 Ti	# 3	48.73 ug/l	1.69	50.00	90 - 110	
51 V	# 2	48.19 ug/l	0.51	50.00	90 - 110	
52 Cr	# 2	48.33 ug/l	0.45	50.00	90 - 110	
55 Mn	# 3	492 ug/l	0.65	500.00	90 - 110	
56 Fe	# 1	4865 ug/l	0.65	5000.00	90 - 110	
59 Co	# 3	50.25 ug/l	1.03	50.00	90 - 110	
60 Ni	# 2	48.8 ug/l	1.05	50.00	90 - 110	
63 Cu	# 2	48.72 ug/l	0.46	50.00	90 - 110	
65 Cu	# 2	48.7 ug/l	1.45	50.00	90 - 110	
65 Cu	# 3	49.59 ug/l	0.76	50.00	90 - 110	
66 Zn	# 3	49.72 ug/l	0.64	50.00	90 - 110	
68 Zn	# 3	49.22 ug/l	0.64	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------	---	##### - #####	
75 As	# 2	49.55 ug/l	0.83	50.00	90 - 110	
78 Se	# 1	50.47 ug/l	0.46	50.00	90 - 110	
88 Sr	# 3	49.36 ug/l	1.53	50.00	90 - 110	
90 Zr	# 3	476.9 ug/l	1.42	500.00	90 - 110	
91 Zr	# 3	483.2 ug/l	1.51	500.00	90 - 110	
95 Mo	# 3	47.11 ug/l	1.04	50.00	90 - 110	
107 Ag	# 3	48.01 ug/l	0.49	50.00	90 - 110	
111 Cd	# 3	48.99 ug/l	0.65	50.00	90 - 110	
118 Sn	# 3	48.7 ug/l	0.50	50.00	90 - 110	
121 Sb	# 3	45.5 ug/l	0.61	50.00	90 - 110	
137 Ba	# 3	47.66 ug/l	0.42	50.00	90 - 110	
201 Hg	# 3	2.353 ug/l	0.48	2.50	90 - 110	
202 Hg	# 3	2.382 ug/l	1.00	2.50	90 - 110	
203 Tl	# 3	9.758 ug/l	0.59	10.00	90 - 110	
205 Tl	# 3	9.783 ug/l	0.66	10.00	90 - 110	
208 Pb	# 3	48.74 ug/l	1.20	50.00	90 - 110	
232 Th	# 3	48.32 ug/l	1.56	---	##### - #####	
238 U	# 3	48.03 ug/l	1.32	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	524983.81	2.90	531519.69	98.8	60 - 125	
45 Sc	# 1	281835.75	0.62	282316.44	99.8	60 - 125	
45 Sc	# 3	810479.94	1.89	802725.75	101.0	60 - 125	
74 Ge	# 1	109084.45	0.73	109028.65	100.1	60 - 125	
74 Ge	# 2	20666.02	2.06	20216.41	102.2	60 - 125	
74 Ge	# 3	209597.69	0.35	209704.94	99.9	60 - 125	
89 Y	# 3	1165223.60	1.56	1159007.90	100.5	60 - 125	
115 In	# 3	1264233.60	0.73	1277748.90	98.9	60 - 125	
159 Tb	# 3	1894955.60	1.90	1896321.40	99.9	60 - 125	
209 Bi	# 3	1136642.50	0.63	1156151.50	98.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\024_CCB.D\024_CCB.D#
Date Acquired: Mar 25 2009 02:22 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.007787 ug/l	12.93	#VALUE!	
11 B	0.8993 ug/l	7.42	#VALUE!	
23 Na	0.3091 ug/l	43.35	#VALUE!	
24 Mg	0.5597 ug/l	14.48	#VALUE!	
27 Al	0.04717 ug/l	68.07	#VALUE!	
39 K	0.2381 ug/l	127.59	#VALUE!	
40 Ca	0.5341 ug/l	12.78	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.01612 ug/l	74.75	#VALUE!	
51 V	-0.01085 ug/l	58.20	#VALUE!	
52 Cr	0.006078 ug/l	79.55	#VALUE!	
55 Mn	0.03798 ug/l	8.16	#VALUE!	
56 Fe	1.006 ug/l	3.26	#VALUE!	
59 Co	0.003565 ug/l	13.53	#VALUE!	
60 Ni	0.005603 ug/l	128.45	#VALUE!	
63 Cu	0.01706 ug/l	48.09	#VALUE!	
65 Cu	0.008223 ug/l	102.36	#VALUE!	
65 Cu	0.007135 ug/l	14.70	#VALUE!	
66 Zn	-0.0009535 ug/l	769.80	#VALUE!	
68 Zn	-0.01255 ug/l	155.54	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.03063 ug/l	26.32	#VALUE!	
78 Se	0.06485 ug/l	0.38	#VALUE!	
88 Sr	0.003526 ug/l	20.77	#VALUE!	
90 Zr	0.6539 ug/l	3.57	#VALUE!	
91 Zr	0.6238 ug/l	4.93	#VALUE!	
95 Mo	0.1093 ug/l	14.31	#VALUE!	
107 Ag	0.006529 ug/l	13.80	#VALUE!	
111 Cd	0.004061 ug/l	102.27	#VALUE!	
118 Sn	0.07468 ug/l	6.70	#VALUE!	
121 Sb	0.03044 ug/l	7.31	#VALUE!	
137 Ba	-0.0006011 ug/l	503.91	#VALUE!	
201 Hg	0.02877 ug/l	16.46	#VALUE!	
202 Hg	0.02738 ug/l	7.77	#VALUE!	
203 Tl	0.03703 ug/l	7.29	#VALUE!	
205 Tl	0.03458 ug/l	16.32	#VALUE!	
208 Pb	0.005474 ug/l	29.67	#VALUE!	
232 Th	0.06824 ug/l	10.50	#VALUE!	
238 U	0.00919 ug/l	8.02	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	537573.56	1.42	531519.69	101.1	60 - 125	
45 Sc	281293.47	0.85	282316.44	99.6	60 - 125	
45 Sc	820418.06	2.18	802725.75	102.2	60 - 125	
74 Ge	109261.93	0.79	109028.65	100.2	60 - 125	
74 Ge	20734.27	3.03	20216.41	102.6	60 - 125	
74 Ge	211754.47	1.32	209704.94	101.0	60 - 125	
89 Y	1171659.40	1.10	1159007.90	101.1	60 - 125	
115 In	1275149.00	1.14	1277748.90	99.8	60 - 125	
159 Tb	1899129.80	1.14	1896321.40	100.1	60 - 125	
209 Bi	1146565.90	1.46	1156151.50	99.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\025SMPL.D\025SMPL.D#
Date Acquired: Mar 25 2009 02:29 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: ICSA
Misc Info: MSICSA 00020
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.002914	0.002914	ug/l	23.46	#VALUE!	
11 B	# 3	0.7595	0.7595	ug/l	9.64	#VALUE!	
23 Na	# 1	97590	97590	ug/l	1.20	#VALUE!	
24 Mg	# 1	94240	94240	ug/l	1.15	#VALUE!	
27 Al	# 1	92580	92580	ug/l	0.68	#VALUE!	
39 K	# 2	100200	100200	ug/l	0.57	#VALUE!	
40 Ca	# 1	98560	98560	ug/l	0.65	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	2173	2173	ug/l	0.38	#VALUE!	
51 V	# 2	0.03575	0.03575	ug/l	19.42	#VALUE!	
52 Cr	# 2	1.012	1.012	ug/l	1.77	#VALUE!	
55 Mn	# 3	2.17	2.17	ug/l	0.60	#VALUE!	
56 Fe	# 1	96140	96140	ug/l	0.61	#VALUE!	
59 Co	# 3	0.1521	0.1521	ug/l	8.01	#VALUE!	
60 Ni	# 2	0.625	0.625	ug/l	7.29	#VALUE!	
63 Cu	# 2	0.1095	0.1095	ug/l	5.32	#VALUE!	
65 Cu	# 2	0.1977	0.1977	ug/l	4.92	#VALUE!	
65 Cu	# 3	1.491	1.491	ug/l	2.08	#VALUE!	
66 Zn	# 3	2.844	2.844	ug/l	1.97	#VALUE!	
68 Zn	# 3	1.518	1.518	ug/l	3.70	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	0.1123	0.1123	ug/l	2.72	#VALUE!	
78 Se	# 1	0.06776	0.06776	ug/l	20.07	#VALUE!	
88 Sr	# 3	2.68	2.68	ug/l	1.48	#VALUE!	
90 Zr	# 3	4.737	4.737	ug/l	10.75	#VALUE!	
91 Zr	# 3	4.73	4.73	ug/l	10.68	#VALUE!	
95 Mo	# 3	2092	2092	ug/l	0.39	#VALUE!	
107 Ag	# 3	0.05333	0.05333	ug/l	4.51	#VALUE!	
111 Cd	# 3	-0.1582	-0.1582	ug/l	42.78	#VALUE!	
118 Sn	# 3	0.08456	0.08456	ug/l	5.60	#VALUE!	
121 Sb	# 3	0.2126	0.2126	ug/l	1.47	#VALUE!	
137 Ba	# 3	1.494	1.494	ug/l	0.89	#VALUE!	
201 Hg	# 3	0.02466	0.02466	ug/l	13.03	#VALUE!	
202 Hg	# 3	0.02536	0.02536	ug/l	2.68	#VALUE!	
203 Tl	# 3	0.04229	0.04229	ug/l	9.69	#VALUE!	
205 Tl	# 3	0.03998	0.03998	ug/l	4.31	#VALUE!	
208 Pb	# 3	0.09257	0.09257	ug/l	3.54	#VALUE!	
232 Th	# 3	0.08488	0.08488	ug/l	5.23	#VALUE!	
238 U	# 3	0.003738	0.003738	ug/l	10.50	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	478515.25	1.36	531519.69	90.0	60 - 125	
45 Sc	# 1	269278.19	1.24	282316.44	95.4	60 - 125	
45 Sc	# 3	770543.63	0.70	802725.75	96.0	60 - 125	
74 Ge	# 1	97441.34	1.49	109028.65	89.4	60 - 125	
74 Ge	# 2	18351.39	3.28	20216.41	90.8	60 - 125	
74 Ge	# 3	187952.94	0.37	209704.94	89.6	60 - 125	
89 Y	# 3	1114715.10	0.72	1159007.90	96.2	60 - 125	
115 In	# 3	1135630.10	0.76	1277748.90	88.9	60 - 125	
159 Tb	# 3	1793461.60	1.69	1896321.40	94.6	60 - 125	
209 Bi	# 3	942715.19	0.82	1156151.50	81.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\026SMPL.D\026SMPL.D#
Date Acquired:	Mar 25 2009 02:36 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	ICSAB
Misc Info:	MSICSAB 00022
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.008342	0.008342	ug/l	22.96	#VALUE!	
11 B	# 3	0.5576	0.5576	ug/l	6.90	#VALUE!	
23 Na	# 1	98320	98320	ug/l	1.67	#VALUE!	
24 Mg	# 1	94710	94710	ug/l	1.07	#VALUE!	
27 Al	# 1	93030	93030	ug/l	0.90	#VALUE!	
39 K	# 2	99320	99320	ug/l	0.63	#VALUE!	
40 Ca	# 1	98910	98910	ug/l	0.47	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	2179	2179	ug/l	0.93	#VALUE!	
51 V	# 2	0.04348	0.04348	ug/l	26.96	#VALUE!	
52 Cr	# 2	22.1	22.1	ug/l	1.13	#VALUE!	
55 Mn	# 3	22.14	22.14	ug/l	0.60	#VALUE!	
56 Fe	# 1	98460	98460	ug/l	0.43	#VALUE!	
59 Co	# 3	19.74	19.74	ug/l	0.47	#VALUE!	
60 Ni	# 2	21	21	ug/l	0.80	#VALUE!	
63 Cu	# 2	19.81	19.81	ug/l	1.39	#VALUE!	
65 Cu	# 2	19.55	19.55	ug/l	0.95	#VALUE!	
65 Cu	# 3	20.64	20.64	ug/l	0.72	#VALUE!	
66 Zn	# 3	20.85	20.85	ug/l	0.56	#VALUE!	
68 Zn	# 3	19.11	19.11	ug/l	1.52	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	21.04	21.04	ug/l	2.07	#VALUE!	
78 Se	# 1	0.04271	0.04271	ug/l	5.21	#VALUE!	
88 Sr	# 3	2.722	2.722	ug/l	0.54	#VALUE!	
90 Zr	# 3	2.203	2.203	ug/l	3.30	#VALUE!	
91 Zr	# 3	2.228	2.228	ug/l	5.21	#VALUE!	
95 Mo	# 3	2107	2107	ug/l	1.10	#VALUE!	
107 Ag	# 3	17.61	17.61	ug/l	1.13	#VALUE!	
111 Cd	# 3	18.36	18.36	ug/l	1.18	#VALUE!	
118 Sn	# 3	0.06705	0.06705	ug/l	11.62	#VALUE!	
121 Sb	# 3	0.2035	0.2035	ug/l	3.39	#VALUE!	
137 Ba	# 3	1.494	1.494	ug/l	3.24	#VALUE!	
201 Hg	# 3	0.02182	0.02182	ug/l	2.92	#VALUE!	
202 Hg	# 3	0.02502	0.02502	ug/l	2.86	#VALUE!	
203 Tl	# 3	0.03675	0.03675	ug/l	8.05	#VALUE!	
205 Tl	# 3	0.03239	0.03239	ug/l	14.89	#VALUE!	
208 Pb	# 3	0.0922	0.0922	ug/l	1.62	#VALUE!	
232 Th	# 3	0.04215	0.04215	ug/l	4.22	#VALUE!	
238 U	# 3	0.003025	0.003025	ug/l	28.58	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	478632.81	1.27	531519.69	90.0	60 - 125	
45 Sc	# 1	252469.05	2.10	282316.44	89.4	60 - 125	
45 Sc	# 3	755481.38	1.41	802725.75	94.1	60 - 125	
74 Ge	# 1	93076.13	2.58	109028.65	85.4	60 - 125	
74 Ge	# 2	16965.76	3.24	20216.41	83.9	60 - 125	
74 Ge	# 3	185403.92	0.77	209704.94	88.4	60 - 125	
89 Y	# 3	1101011.80	0.84	1159007.90	95.0	60 - 125	
115 In	# 3	1120986.50	1.10	1277748.90	87.7	60 - 125	
159 Tb	# 3	1757360.10	0.86	1896321.40	92.7	60 - 125	
209 Bi	# 3	909302.38	1.75	1156151.50	78.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\027SMPL.D\027SMPL.D#
Date Acquired:	Mar 25 2009 02:43 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	1PPM
Misc Info:	MS LINNG 00011 1/20
Vial Number:	4510
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnoxm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.0008311	0.0008311	ug/l	173.26	#VALUE!	
11	B	# 3	965.2	965.2	ug/l	1.19	#VALUE!	
23	Na	# 1	22.2	22.2	ug/l	91.08	#VALUE!	
24	Mg	# 1	18.78	18.78	ug/l	106.07	#VALUE!	
27	Al	# 1	18.75	18.75	ug/l	102.72	#VALUE!	
39	K	# 2	3.881	3.881	ug/l	33.16	#VALUE!	
40	Ca	# 1	19.79	19.79	ug/l	98.64	#VALUE!	
45	Sc	# 2	----	---------	ug/l	--------	#VALUE!	
47	Ti	# 3	1025	1025	ug/l	0.54	#VALUE!	
51	V	# 2	1095	1095	ug/l	1.05	#VALUE!	
52	Cr	# 2	1039	1039	ug/l	0.22	#VALUE!	
55	Mn	# 3	1012	1012	ug/l	0.55	#VALUE!	
56	Fe	# 1	24	24	ug/l	83.75	#VALUE!	
59	Co	# 3	984.4	984.4	ug/l	0.25	#VALUE!	
60	Ni	# 2	1047	1047	ug/l	1.61	#VALUE!	
63	Cu	# 2	1084	1084	ug/l	0.94	#VALUE!	
65	Cu	# 2	1080	1080	ug/l	0.44	#VALUE!	
65	Cu	# 3	1049	1049	ug/l	0.39	#VALUE!	
66	Zn	# 3	1033	1033	ug/l	0.78	#VALUE!	
68	Zn	# 3	1046	1046	ug/l	0.91	#VALUE!	
70	Ge	# 2	----	---------	ug/l	--------	#VALUE!	
75	As	# 2	0.7584	0.7584	ug/l	10.07	#VALUE!	
78	Se	# 1	0.008534	0.008534	ug/l	84.44	#VALUE!	
88	Sr	# 3	1011	1011	ug/l	0.54	#VALUE!	
90	Zr	# 3	5.152	5.152	ug/l	9.94	#VALUE!	
91	Zr	# 3	5.087	5.087	ug/l	9.14	#VALUE!	
95	Mo	# 3	955.8	955.8	ug/l	0.72	#VALUE!	
107	Ag	# 3	0.09694	0.09694	ug/l	5.65	#VALUE!	
111	Cd	# 3	-0.1078	-0.1078	ug/l	32.76	#VALUE!	
118	Sn	# 3	1019	1019	ug/l	0.90	#VALUE!	
121	Sb	# 3	0.04191	0.04191	ug/l	8.65	#VALUE!	
137	Ba	# 3	1007	1007	ug/l	0.96	#VALUE!	
201	Hg	# 3	0.00731	0.00731	ug/l	17.87	#VALUE!	
202	Hg	# 3	0.01073	0.01073	ug/l	1.32	#VALUE!	
203	Tl	# 3	0.006473	0.006473	ug/l	18.86	#VALUE!	
205	Tl	# 3	0.009614	0.009614	ug/l	15.88	#VALUE!	
208	Pb	# 3	1004	1004	ug/l	1.46	#VALUE!	
232	Th	# 3	0.03402	0.03402	ug/l	3.13	#VALUE!	
238	U	# 3	0.003092	0.003092	ug/l	21.16	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	476389.00	0.96	531519.69	89.6	60 - 125	
45	Sc	# 1	242001.39	0.81	282316.44	85.7	60 - 125	
45	Sc	# 3	716924.13	0.47	802725.75	89.3	60 - 125	
74	Ge	# 1	96157.76	1.11	109028.65	88.2	60 - 125	
74	Ge	# 2	16880.48	2.66	20216.41	83.5	60 - 125	
74	Ge	# 3	187159.52	1.26	209704.94	89.2	60 - 125	
89	Y	# 3	1055429.50	2.06	1159007.90	91.1	60 - 125	
115	In	# 3	1153165.90	2.32	1277748.90	90.2	60 - 125	
159	Tb	# 3	1771799.50	2.45	1896321.40	93.4	60 - 125	
209	Bi	# 3	1086969.00	1.80	1156151.50	94.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\028SMPL.D\028SMPL.D#
Date Acquired: Mar 25 2009 02:49 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 2PPM
Misc Info: MS LINNG 000011 1/10
Vial Number: 4512
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.003751	0.003751	ug/l	33.46	#VALUE!	
11 B	# 3	1937	1937	ug/l	1.57	#VALUE!	
23 Na	# 1	10.81	10.81	ug/l	29.18	#VALUE!	
24 Mg	# 1	10.02	10.02	ug/l	31.40	#VALUE!	
27 Al	# 1	10.05	10.05	ug/l	31.32	#VALUE!	
39 K	# 2	8.266	8.266	ug/l	4.22	#VALUE!	
40 Ca	# 1	11.11	11.11	ug/l	28.00	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	2023	2023	ug/l	0.72	#VALUE!	
51 V	# 2	2147	2147	ug/l	0.92	#VALUE!	
52 Cr	# 2	2007	2007	ug/l	0.79	#VALUE!	
55 Mn	# 3	2048	2048	ug/l	0.67	#VALUE!	
56 Fe	# 1	11.14	11.14	ug/l	29.52	#VALUE!	
59 Co	# 3	1975	1975	ug/l	0.38	#VALUE!	
60 Ni	# 2	2119	2119	ug/l	0.89	#VALUE!	
63 Cu	# 2	2096	2096	ug/l	0.51	#VALUE!	
65 Cu	# 2	2124	2124	ug/l	0.75	#VALUE!	
65 Cu	# 3	2070	2070	ug/l	0.47	#VALUE!	
66 Zn	# 3	2044	2044	ug/l	0.62	#VALUE!	
68 Zn	# 3	2079	2079	ug/l	0.26	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75 As	# 2	1.418	1.418	ug/l	3.69	#VALUE!	
78 Se	# 1	0.01169	0.01169	ug/l	103.08	#VALUE!	
88 Sr	# 3	2043	2043	ug/l	0.98	#VALUE!	
90 Zr	# 3	4.171	4.171	ug/l	7.57	#VALUE!	
91 Zr	# 3	4.243	4.243	ug/l	8.25	#VALUE!	
95 Mo	# 3	1886	1886	ug/l	0.84	#VALUE!	
107 Ag	# 3	0.1754	0.1754	ug/l	4.70	#VALUE!	
111 Cd	# 3	-0.2605	-0.2605	ug/l	18.12	#VALUE!	
118 Sn	# 3	2023	2023	ug/l	0.73	#VALUE!	
121 Sb	# 3	0.06847	0.06847	ug/l	15.00	#VALUE!	
137 Ba	# 3	1996	1996	ug/l	1.09	#VALUE!	
201 Hg	# 3	0.007983	0.007983	ug/l	36.74	#VALUE!	
202 Hg	# 3	0.007733	0.007733	ug/l	13.18	#VALUE!	
203 Tl	# 3	0.005774	0.005774	ug/l	43.64	#VALUE!	
205 Tl	# 3	0.01203	0.01203	ug/l	26.97	#VALUE!	
208 Pb	# 3	2041	2041	ug/l	0.76	#VALUE!	
232 Th	# 3	0.03239	0.03239	ug/l	5.39	#VALUE!	
238 U	# 3	0.003675	0.003675	ug/l	6.90	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	478854.53	0.76	531519.69	90.1	60 - 125	
45 Sc	# 1	244399.88	0.81	282316.44	86.6	60 - 125	
45 Sc	# 3	713767.13	1.04	802725.75	88.9	60 - 125	
74 Ge	# 1	95905.48	0.61	109028.65	88.0	60 - 125	
74 Ge	# 2	17073.33	2.95	20216.41	84.5	60 - 125	
74 Ge	# 3	185380.55	1.13	209704.94	88.4	60 - 125	
89 Y	# 3	1055047.40	1.65	1159007.90	91.0	60 - 125	
115 In	# 3	1160442.10	0.47	1277748.90	90.8	60 - 125	
159 Tb	# 3	1793172.30	0.59	1896321.40	94.6	60 - 125	
209 Bi	# 3	1123046.00	1.96	1156151.50	97.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\029SMPL.D\029SMPL.D#
Date Acquired: Mar 25 2009 02:55 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: Rinse
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.0004045	0.0004045	ug/l	173.18	#VALUE!	
11	B	# 3	20.53	20.53	ug/l	8.33	#VALUE!	
23	Na	# 1	6.277	6.277	ug/l	4.24	#VALUE!	
24	Mg	# 1	4.422	4.422	ug/l	1.57	#VALUE!	
27	Al	# 1	4.317	4.317	ug/l	1.86	#VALUE!	
39	K	# 2	3.087	3.087	ug/l	13.07	#VALUE!	
40	Ca	# 1	5.3	5.3	ug/l	1.52	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.3144	0.3144	ug/l	7.02	#VALUE!	
51	V	# 2	0.1026	0.1026	ug/l	17.02	#VALUE!	
52	Cr	# 2	0.08329	0.08329	ug/l	5.20	#VALUE!	
55	Mn	# 3	0.09621	0.09621	ug/l	3.80	#VALUE!	
56	Fe	# 1	4.999	4.999	ug/l	0.40	#VALUE!	
59	Co	# 3	0.08294	0.08294	ug/l	5.07	#VALUE!	
60	Ni	# 2	0.1743	0.1743	ug/l	11.20	#VALUE!	
63	Cu	# 2	0.2623	0.2623	ug/l	3.91	#VALUE!	
65	Cu	# 2	0.283	0.283	ug/l	1.77	#VALUE!	
65	Cu	# 3	0.3325	0.3325	ug/l	9.60	#VALUE!	
66	Zn	# 3	0.4242	0.4242	ug/l	2.16	#VALUE!	
68	Zn	# 3	0.4322	0.4322	ug/l	3.12	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	0.01745	0.01745	ug/l	13.09	#VALUE!	
78	Se	# 1	0.0003739	0.0003739	ug/l	428.46	#VALUE!	
88	Sr	# 3	0.09156	0.09156	ug/l	6.48	#VALUE!	
90	Zr	# 3	-0.02355	-0.02355	ug/l	10.52	#VALUE!	
91	Zr	# 3	-0.02781	-0.02781	ug/l	18.69	#VALUE!	
95	Mo	# 3	2.388	2.388	ug/l	10.96	#VALUE!	
107	Ag	# 3	0.001873	0.001873	ug/l	58.30	#VALUE!	
111	Cd	# 3	0.002231	0.002231	ug/l	280.50	#VALUE!	
118	Sn	# 3	2.119	2.119	ug/l	8.16	#VALUE!	
121	Sb	# 3	0.005258	0.005258	ug/l	42.09	#VALUE!	
137	Ba	# 3	0.0957	0.0957	ug/l	14.48	#VALUE!	
201	Hg	# 3	0.006149	0.006149	ug/l	13.93	#VALUE!	
202	Hg	# 3	0.006894	0.006894	ug/l	9.97	#VALUE!	
203	Tl	# 3	0.002147	0.002147	ug/l	43.22	#VALUE!	
205	Tl	# 3	-0.0005326	-0.0005326	ug/l	47.52	#VALUE!	
208	Pb	# 3	0.1471	0.1471	ug/l	1.27	#VALUE!	
232	Th	# 3	0.001364	0.001364	ug/l	82.33	#VALUE!	
238	U	# 3	0.0003912	0.0003912	ug/l	41.92	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	482464.69	2.23	531519.69	90.8	60 - 125	
45	Sc	# 1	248040.53	0.45	282316.44	87.9	60 - 125	
45	Sc	# 3	727941.63	1.61	802725.75	90.7	60 - 125	
74	Ge	# 1	97316.44	0.71	109028.65	89.3	60 - 125	
74	Ge	# 2	17570.68	2.64	20216.41	86.9	60 - 125	
74	Ge	# 3	188751.63	2.13	209704.94	90.0	60 - 125	
89	Y	# 3	1072941.60	1.55	1159007.90	92.6	60 - 125	
115	In	# 3	1195192.00	1.18	1277748.90	93.5	60 - 125	
159	Tb	# 3	1795465.10	1.09	1896321.40	94.7	60 - 125	
209	Bi	# 3	1110453.60	2.18	1156151.50	96.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\030SMPL.D\030SMPL.D#
Date Acquired: Mar 25 2009 03:02 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: Rinse
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0	0	ug/l	0.00	#VALUE!	
11	B	# 3	7.894	7.894	ug/l	2.93	#VALUE!	
23	Na	# 1	14.77	14.77	ug/l	0.27	#VALUE!	
24	Mg	# 1	12.66	12.66	ug/l	0.43	#VALUE!	
27	Al	# 1	12.38	12.38	ug/l	1.56	#VALUE!	
39	K	# 2	58.65	58.65	ug/l	145.15	#VALUE!	
40	Ca	# 1	13.29	13.29	ug/l	1.78	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.1433	0.1433	ug/l	12.83	#VALUE!	
51	V	# 2	2.315	2.315	ug/l	146.57	#VALUE!	
52	Cr	# 2	2.188	2.188	ug/l	144.65	#VALUE!	
55	Mn	# 3	0.05123	0.05123	ug/l	3.21	#VALUE!	
56	Fe	# 1	13.06	13.06	ug/l	0.46	#VALUE!	
59	Co	# 3	0.03634	0.03634	ug/l	9.14	#VALUE!	
60	Ni	# 2	2.416	2.416	ug/l	139.20	#VALUE!	
63	Cu	# 2	2.474	2.474	ug/l	135.37	#VALUE!	
65	Cu	# 2	2.509	2.509	ug/l	135.27	#VALUE!	
65	Cu	# 3	0.2111	0.2111	ug/l	13.79	#VALUE!	
66	Zn	# 3	0.3727	0.3727	ug/l	10.66	#VALUE!	
68	Zn	# 3	0.3388	0.3388	ug/l	9.43	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	0.0233	0.0233	ug/l	92.36	#VALUE!	
78	Se	# 1	0.000327	0.000327	ug/l	1280.40	#VALUE!	
88	Sr	# 3	0.03845	0.03845	ug/l	11.89	#VALUE!	
90	Zr	# 3	-0.02549	-0.02549	ug/l	3.37	#VALUE!	
91	Zr	# 3	-0.02474	-0.02474	ug/l	43.98	#VALUE!	
95	Mo	# 3	0.8716	0.8716	ug/l	7.61	#VALUE!	
107	Ag	# 3	0.002352	0.002352	ug/l	82.74	#VALUE!	
111	Cd	# 3	0.002664	0.002664	ug/l	84.61	#VALUE!	
118	Sn	# 3	0.8058	0.8058	ug/l	3.85	#VALUE!	
121	Sb	# 3	0.006045	0.006045	ug/l	19.07	#VALUE!	
137	Ba	# 3	0.03128	0.03128	ug/l	3.88	#VALUE!	
201	Hg	# 3	0.005458	0.005458	ug/l	12.75	#VALUE!	
202	Hg	# 3	0.008869	0.008869	ug/l	12.80	#VALUE!	
203	Tl	# 3	0.0004513	0.0004513	ug/l	320.41	#VALUE!	
205	Tl	# 3	-0.0014	-0.0014	ug/l	19.95	#VALUE!	
208	Pb	# 3	0.07003	0.07003	ug/l	5.94	#VALUE!	
232	Th	# 3	0.001289	0.001289	ug/l	33.95	#VALUE!	
238	U	# 3	0.0003567	0.0003567	ug/l	60.98	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	483180.34	1.52	531519.69	90.9	60 - 125	
45	Sc	# 1	249874.14	0.47	282316.44	88.5	60 - 125	
45	Sc	# 3	730082.63	1.78	802725.75	91.0	60 - 125	
74	Ge	# 1	98025.66	0.47	109028.65	89.9	60 - 125	
74	Ge	# 2	18206.49	1.90	20216.41	90.1	60 - 125	
74	Ge	# 3	187707.28	1.94	209704.94	89.5	60 - 125	
89	Y	# 3	1060061.60	2.05	1159007.90	91.5	60 - 125	
115	In	# 3	1182016.30	1.25	1277748.90	92.5	60 - 125	
159	Tb	# 3	1801418.90	1.13	1896321.40	95.0	60 - 125	
209	Bi	# 3	1104438.80	1.05	1156151.50	95.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\031SMPL.D\031SMPL.D#
Date Acquired: Mar 25 2009 03:09 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: Rinse
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0	0	ug/l	0.00	#VALUE!	
11	B	# 3	4.423	4.423	ug/l	1.81	#VALUE!	
23	Na	# 1	4.875	4.875	ug/l	7.09	#VALUE!	
24	Mg	# 1	2.784	2.784	ug/l	1.08	#VALUE!	
27	Al	# 1	2.747	2.747	ug/l	3.30	#VALUE!	
39	K	# 2	1.19	1.19	ug/l	73.40	#VALUE!	
40	Ca	# 1	3.716	3.716	ug/l	2.28	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	0.1336	0.1336	ug/l	4.04	#VALUE!	
51	V	# 2	0.02921	0.02921	ug/l	11.73	#VALUE!	
52	Cr	# 2	0.03431	0.03431	ug/l	19.87	#VALUE!	
55	Mn	# 3	0.04688	0.04688	ug/l	5.88	#VALUE!	
56	Fe	# 1	3.198	3.198	ug/l	0.73	#VALUE!	
59	Co	# 3	0.03572	0.03572	ug/l	9.92	#VALUE!	
60	Ni	# 2	0.14	0.14	ug/l	13.24	#VALUE!	
63	Cu	# 2	0.1655	0.1655	ug/l	7.31	#VALUE!	
65	Cu	# 2	0.1721	0.1721	ug/l	11.00	#VALUE!	
65	Cu	# 3	0.1876	0.1876	ug/l	18.88	#VALUE!	
66	Zn	# 3	0.3419	0.3419	ug/l	4.45	#VALUE!	
68	Zn	# 3	0.3376	0.3376	ug/l	9.07	#VALUE!	
70	Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75	As	# 2	0.006989	0.006989	ug/l	47.55	#VALUE!	
78	Se	# 1	0.002487	0.002487	ug/l	100.64	#VALUE!	
88	Sr	# 3	0.03656	0.03656	ug/l	3.21	#VALUE!	
90	Zr	# 3	-0.02479	-0.02479	ug/l	18.10	#VALUE!	
91	Zr	# 3	-0.02806	-0.02806	ug/l	16.47	#VALUE!	
95	Mo	# 3	0.5251	0.5251	ug/l	6.99	#VALUE!	
107	Ag	# 3	0.002695	0.002695	ug/l	6.19	#VALUE!	
111	Cd	# 3	0.001512	0.001512	ug/l	150.60	#VALUE!	
118	Sn	# 3	0.4497	0.4497	ug/l	1.02	#VALUE!	
121	Sb	# 3	0.00406	0.00406	ug/l	19.39	#VALUE!	
137	Ba	# 3	0.04065	0.04065	ug/l	14.82	#VALUE!	
201	Hg	# 3	0.004549	0.004549	ug/l	12.15	#VALUE!	
202	Hg	# 3	0.00709	0.00709	ug/l	19.72	#VALUE!	
203	Tl	# 3	0.0003616	0.0003616	ug/l	175.80	#VALUE!	
205	Tl	# 3	-0.001722	-0.001722	ug/l	54.22	#VALUE!	
208	Pb	# 3	0.05673	0.05673	ug/l	3.80	#VALUE!	
232	Th	# 3	0.0021	0.0021	ug/l	23.49	#VALUE!	
238	U	# 3	0.0003219	0.0003219	ug/l	30.70	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	479621.72	1.21	531519.69	90.2	60 - 125	
45	Sc	# 1	251036.66	0.76	282316.44	88.9	60 - 125	
45	Sc	# 3	723716.31	1.16	802725.75	90.2	60 - 125	
74	Ge	# 1	97395.52	1.29	109028.65	89.3	60 - 125	
74	Ge	# 2	18005.72	3.67	20216.41	89.1	60 - 125	
74	Ge	# 3	188895.56	1.45	209704.94	90.1	60 - 125	
89	Y	# 3	1062212.50	0.78	1159007.90	91.6	60 - 125	
115	In	# 3	1181227.90	1.31	1277748.90	92.4	60 - 125	
159	Tb	# 3	1785573.30	0.59	1896321.40	94.2	60 - 125	
209	Bi	# 3	1102615.60	1.98	1156151.50	95.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\032SMPL.D\032SMPL.D#
Date Acquired: Mar 25 2009 03:16 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: Rinse
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.0004086	0.0004086	ug/l	173.20	#VALUE!	
11	B	# 3	2.853	2.853	ug/l	1.56	#VALUE!	
23	Na	# 1	5.021	5.021	ug/l	5.02	#VALUE!	
24	Mg	# 1	2.857	2.857	ug/l	3.39	#VALUE!	
27	Al	# 1	2.704	2.704	ug/l	2.75	#VALUE!	
39	K	# 2	1.716	1.716	ug/l	86.95	#VALUE!	
40	Ca	# 1	3.674	3.674	ug/l	1.85	#VALUE!	
45	Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47	Ti	# 3	0.1081	0.1081	ug/l	13.07	#VALUE!	
51	V	# 2	0.0216	0.0216	ug/l	53.61	#VALUE!	
52	Cr	# 2	0.03226	0.03226	ug/l	48.51	#VALUE!	
55	Mn	# 3	0.04306	0.04306	ug/l	5.13	#VALUE!	
56	Fe	# 1	3.182	3.182	ug/l	0.71	#VALUE!	
59	Co	# 3	0.03164	0.03164	ug/l	13.03	#VALUE!	
60	Ni	# 2	0.1265	0.1265	ug/l	11.00	#VALUE!	
63	Cu	# 2	0.1448	0.1448	ug/l	8.34	#VALUE!	
65	Cu	# 2	0.1287	0.1287	ug/l	18.14	#VALUE!	
65	Cu	# 3	0.1726	0.1726	ug/l	4.08	#VALUE!	
66	Zn	# 3	0.3544	0.3544	ug/l	17.57	#VALUE!	
68	Zn	# 3	0.3213	0.3213	ug/l	19.80	#VALUE!	
70	Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75	As	# 2	0.01805	0.01805	ug/l	12.31	#VALUE!	
78	Se	# 1	-0.001249	-0.001249	ug/l	219.30	#VALUE!	
88	Sr	# 3	0.03781	0.03781	ug/l	1.10	#VALUE!	
90	Zr	# 3	-0.02217	-0.02217	ug/l	2.58	#VALUE!	
91	Zr	# 3	-0.02218	-0.02218	ug/l	40.86	#VALUE!	
95	Mo	# 3	0.4248	0.4248	ug/l	8.60	#VALUE!	
107	Ag	# 3	0.0008455	0.0008455	ug/l	176.23	#VALUE!	
111	Cd	# 3	0.0011	0.0011	ug/l	0.92	#VALUE!	
118	Sn	# 3	0.3349	0.3349	ug/l	1.35	#VALUE!	
121	Sb	# 3	0.002409	0.002409	ug/l	55.54	#VALUE!	
137	Ba	# 3	0.0284	0.0284	ug/l	12.67	#VALUE!	
201	Hg	# 3	0.006091	0.006091	ug/l	35.96	#VALUE!	
202	Hg	# 3	0.007155	0.007155	ug/l	11.24	#VALUE!	
203	Tl	# 3	-0.0002375	-0.0002375	ug/l	107.79	#VALUE!	
205	Tl	# 3	-0.002392	-0.002392	ug/l	51.13	#VALUE!	
208	Pb	# 3	0.05305	0.05305	ug/l	2.12	#VALUE!	
232	Th	# 3	0.001892	0.001892	ug/l	39.32	#VALUE!	
238	U	# 3	0.0001142	0.0001142	ug/l	3.23	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	483820.47	0.83	531519.69	91.0	60 - 125	
45	Sc	# 1	251006.23	0.87	282316.44	88.9	60 - 125	
45	Sc	# 3	716570.69	1.13	802725.75	89.3	60 - 125	
74	Ge	# 1	97957.08	0.39	109028.65	89.8	60 - 125	
74	Ge	# 2	18306.88	2.19	20216.41	90.6	60 - 125	
74	Ge	# 3	187471.06	2.14	209704.94	89.4	60 - 125	
89	Y	# 3	1061840.80	1.50	1159007.90	91.6	60 - 125	
115	In	# 3	1174248.10	1.59	1277748.90	91.9	60 - 125	
159	Tb	# 3	1776038.30	1.51	1896321.40	93.7	60 - 125	
209	Bi	# 3	1087812.10	1.70	1156151.50	94.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\033_CCV.D\033_CCV.D#
Date Acquired: Mar 25 2009 03:23 pm
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	48.72 ug/l	2.38	50.00	90 - 110	
11 B	# 3	99.54 ug/l	0.64	100.00	90 - 110	
23 Na	# 1	4934 ug/l	0.33	5000.00	90 - 110	
24 Mg	# 1	4902 ug/l	0.78	5000.00	90 - 110	
27 Al	# 1	492.1 ug/l	1.12	500.00	90 - 110	
39 K	# 2	4599 ug/l	1.23	5000.00	90 - 110	
40 Ca	# 1	4856 ug/l	0.33	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------	---	##### - #####	
47 Ti	# 3	48.3 ug/l	1.06	50.00	90 - 110	
51 V	# 2	47.55 ug/l	1.52	50.00	90 - 110	
52 Cr	# 2	47.88 ug/l	0.74	50.00	90 - 110	
55 Mn	# 3	492.9 ug/l	0.49	500.00	90 - 110	
56 Fe	# 1	4901 ug/l	0.76	5000.00	90 - 110	
59 Co	# 3	49.18 ug/l	0.24	50.00	90 - 110	
60 Ni	# 2	48.67 ug/l	0.09	50.00	90 - 110	
63 Cu	# 2	48.52 ug/l	0.39	50.00	90 - 110	
65 Cu	# 2	48.68 ug/l	0.42	50.00	90 - 110	
65 Cu	# 3	48.96 ug/l	1.40	50.00	90 - 110	
66 Zn	# 3	49.79 ug/l	0.41	50.00	90 - 110	
68 Zn	# 3	49.45 ug/l	0.13	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------	---	##### - #####	
75 As	# 2	49.05 ug/l	0.53	50.00	90 - 110	
78 Se	# 1	50.3 ug/l	0.49	50.00	90 - 110	
88 Sr	# 3	49.2 ug/l	0.69	50.00	90 - 110	
90 Zr	# 3	474.7 ug/l	0.76	500.00	90 - 110	
91 Zr	# 3	481.1 ug/l	0.99	500.00	90 - 110	
95 Mo	# 3	47.22 ug/l	0.50	50.00	90 - 110	
107 Ag	# 3	47.88 ug/l	0.90	50.00	90 - 110	
111 Cd	# 3	48.96 ug/l	2.16	50.00	90 - 110	
118 Sn	# 3	48.95 ug/l	1.27	50.00	90 - 110	
121 Sb	# 3	45.47 ug/l	1.27	50.00	90 - 110	
137 Ba	# 3	48.05 ug/l	2.23	50.00	90 - 110	
201 Hg	# 3	2.354 ug/l	1.38	2.50	90 - 110	
202 Hg	# 3	2.384 ug/l	0.14	2.50	90 - 110	
203 Tl	# 3	9.73 ug/l	1.43	10.00	90 - 110	
205 Tl	# 3	9.779 ug/l	0.93	10.00	90 - 110	
208 Pb	# 3	47.79 ug/l	2.21	50.00	90 - 110	
232 Th	# 3	48.48 ug/l	0.33	---	##### - #####	
238 U	# 3	48.94 ug/l	0.46	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	463258.94	3.13	531519.69	87.2	60 - 125	
45 Sc	# 1	249224.77	1.24	282316.44	88.3	60 - 125	
45 Sc	# 3	727274.94	1.62	802725.75	90.6	60 - 125	
74 Ge	# 1	97766.98	0.95	109028.65	89.7	60 - 125	
74 Ge	# 2	18123.29	1.92	20216.41	89.6	60 - 125	
74 Ge	# 3	188098.11	1.50	209704.94	89.7	60 - 125	
89 Y	# 3	1054958.30	1.30	1159007.90	91.0	60 - 125	
115 In	# 3	1155843.00	1.83	1277748.90	90.5	60 - 125	
159 Tb	# 3	1768345.60	1.76	1896321.40	93.3	60 - 125	
209 Bi	# 3	1065029.00	1.96	1156151.50	92.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\034_CCB.D\034_CCB.D#
Date Acquired: Mar 25 2009 03:29 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.004618 ug/l	16.33	#VALUE!	
11 B	2.163 ug/l	8.37	#VALUE!	
23 Na	0.8034 ug/l	28.57	#VALUE!	
24 Mg	1.022 ug/l	7.03	#VALUE!	
27 Al	0.5281 ug/l	2.80	#VALUE!	
39 K	1.322 ug/l	116.87	#VALUE!	
40 Ca	0.8911 ug/l	4.23	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.06818 ug/l	21.14	#VALUE!	
51 V	0.01149 ug/l	154.31	#VALUE!	
52 Cr	0.008697 ug/l	41.61	#VALUE!	
55 Mn	0.0532 ug/l	10.76	#VALUE!	
56 Fe	1.478 ug/l	2.47	#VALUE!	
59 Co	0.02638 ug/l	8.21	#VALUE!	
60 Ni	0.02449 ug/l	9.00	#VALUE!	
63 Cu	0.04465 ug/l	5.71	#VALUE!	
65 Cu	0.05145 ug/l	22.35	#VALUE!	
65 Cu	0.05652 ug/l	11.65	#VALUE!	
66 Zn	0.05654 ug/l	16.33	#VALUE!	
68 Zn	0.04023 ug/l	22.38	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.03003 ug/l	25.80	#VALUE!	
78 Se	0.05369 ug/l	12.63	#VALUE!	
88 Sr	0.02885 ug/l	10.45	#VALUE!	
90 Zr	0.5943 ug/l	1.77	#VALUE!	
91 Zr	0.5678 ug/l	3.78	#VALUE!	
95 Mo	0.2954 ug/l	4.87	#VALUE!	
107 Ag	0.005455 ug/l	8.40	#VALUE!	
111 Cd	0.001761 ug/l	100.34	#VALUE!	
118 Sn	0.2526 ug/l	4.11	#VALUE!	
121 Sb	0.02579 ug/l	10.60	#VALUE!	
137 Ba	0.02566 ug/l	17.18	#VALUE!	
201 Hg	0.02525 ug/l	15.89	#VALUE!	
202 Hg	0.02569 ug/l	9.89	#VALUE!	
203 Tl	0.03727 ug/l	20.41	#VALUE!	
205 Tl	0.03465 ug/l	4.24	#VALUE!	
208 Pb	0.04031 ug/l	2.42	#VALUE!	
232 Th	0.07266 ug/l	8.51	#VALUE!	
238 U	0.007866 ug/l	17.75	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	475753.38	2.24	531519.69	89.5	60 - 125	
45 Sc	251773.09	0.79	282316.44	89.2	60 - 125	
45 Sc	722746.56	1.84	802725.75	90.0	60 - 125	
74 Ge	98958.06	0.55	109028.65	90.8	60 - 125	
74 Ge	18350.31	3.60	20216.41	90.8	60 - 125	
74 Ge	189348.36	1.20	209704.94	90.3	60 - 125	
89 Y	1059908.90	1.55	1159007.90	91.4	60 - 125	
115 In	1161881.80	2.34	1277748.90	90.9	60 - 125	
159 Tb	1756981.00	1.31	1896321.40	92.7	60 - 125	
209 Bi	1065864.60	1.33	1156151.50	92.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\035SMPL.D\035SMPL.D#
Date Acquired:	Mar 25 2009 03:36 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	MB 133309 6020
Misc Info:	3050 1/10
Vial Number:	2101
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.002993	0.002993	ug/l	89.81	#VALUE!	
11	B	# 3	1.449	1.449	ug/l	2.66	#VALUE!	
23	Na	# 1	2.116	2.116	ug/l	24.58	#VALUE!	
24	Mg	# 1	1.489	1.489	ug/l	4.50	#VALUE!	
27	Al	# 1	1.769	1.769	ug/l	6.14	#VALUE!	
39	K	# 2	1.849	1.849	ug/l	40.20	#VALUE!	
40	Ca	# 1	4.955	4.955	ug/l	4.13	#VALUE!	
45	Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47	Ti	# 3	0.06776	0.06776	ug/l	12.56	#VALUE!	
51	V	# 2	0.06614	0.06614	ug/l	11.02	#VALUE!	
52	Cr	# 2	0.1208	0.1208	ug/l	14.50	#VALUE!	
55	Mn	# 3	0.03297	0.03297	ug/l	1.62	#VALUE!	
56	Fe	# 1	2.021	2.021	ug/l	3.27	#VALUE!	
59	Co	# 3	0.002913	0.002913	ug/l	80.12	#VALUE!	
60	Ni	# 2	0.1165	0.1165	ug/l	19.73	#VALUE!	
63	Cu	# 2	0.09828	0.09828	ug/l	9.38	#VALUE!	
65	Cu	# 2	0.1078	0.1078	ug/l	13.01	#VALUE!	
65	Cu	# 3	0.1159	0.1159	ug/l	25.86	#VALUE!	
66	Zn	# 3	0.2045	0.2045	ug/l	16.26	#VALUE!	
68	Zn	# 3	0.2308	0.2308	ug/l	4.57	#VALUE!	
70	Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75	As	# 2	0.02309	0.02309	ug/l	38.31	#VALUE!	
78	Se	# 1	0.02197	0.02197	ug/l	39.04	#VALUE!	
88	Sr	# 3	0.0129	0.0129	ug/l	8.10	#VALUE!	
90	Zr	# 3	1.131	1.131	ug/l	5.64	#VALUE!	
91	Zr	# 3	1.129	1.129	ug/l	11.12	#VALUE!	
95	Mo	# 3	0.2153	0.2153	ug/l	1.99	#VALUE!	
107	Ag	# 3	0.004819	0.004819	ug/l	50.20	#VALUE!	
111	Cd	# 3	0.002871	0.002871	ug/l	92.58	#VALUE!	
118	Sn	# 3	1.718	1.718	ug/l	2.48	#VALUE!	
121	Sb	# 3	0.01709	0.01709	ug/l	19.63	#VALUE!	
137	Ba	# 3	0.01993	0.01993	ug/l	10.31	#VALUE!	
201	Hg	# 3	0.006422	0.006422	ug/l	14.61	#VALUE!	
202	Hg	# 3	0.008567	0.008567	ug/l	1.62	#VALUE!	
203	Tl	# 3	0.01349	0.01349	ug/l	23.07	#VALUE!	
205	Tl	# 3	0.01118	0.01118	ug/l	18.51	#VALUE!	
208	Pb	# 3	0.03493	0.03493	ug/l	5.32	#VALUE!	
232	Th	# 3	0.05475	0.05475	ug/l	4.68	#VALUE!	
238	U	# 3	0.003406	0.003406	ug/l	18.86	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	471587.97	2.08	531519.69	88.7	60 - 125	
45	Sc	# 1	243722.56	2.51	282316.44	86.3	60 - 125	
45	Sc	# 3	708652.88	2.06	802725.75	88.3	60 - 125	
74	Ge	# 1	95570.32	1.58	109028.65	87.7	60 - 125	
74	Ge	# 2	17773.91	2.58	20216.41	87.9	60 - 125	
74	Ge	# 3	185547.36	1.23	209704.94	88.5	60 - 125	
89	Y	# 3	1032295.10	1.36	1159007.90	89.1	60 - 125	
115	In	# 3	1135042.90	1.37	1277748.90	88.8	60 - 125	
159	Tb	# 3	1718991.30	1.04	1896321.40	90.6	60 - 125	
209	Bi	# 3	1053373.90	0.89	1156151.50	91.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\036SMPL.D\036SMPL.D#
Date Acquired: Mar 25 2009 03:43 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: LCS
Misc Info: 3050 1/10
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	4.776	4.776	ug/l	2.89	#VALUE!	
11	B	# 3	19.68	19.68	ug/l	1.74	#VALUE!	
23	Na	# 1	522.4	522.4	ug/l	1.13	#VALUE!	
24	Mg	# 1	522.7	522.7	ug/l	1.18	#VALUE!	
27	Al	# 1	497.7	497.7	ug/l	1.67	#VALUE!	
39	K	# 2	465	465	ug/l	0.76	#VALUE!	
40	Ca	# 1	515.9	515.9	ug/l	0.71	#VALUE!	
45	Sc	# 2	----	---------	ug/l	--------	#VALUE!	
47	Ti	# 3	9.564	9.564	ug/l	0.74	#VALUE!	
51	V	# 2	9.505	9.505	ug/l	2.21	#VALUE!	
52	Cr	# 2	9.92	9.92	ug/l	1.16	#VALUE!	
55	Mn	# 3	51.47	51.47	ug/l	0.52	#VALUE!	
56	Fe	# 1	509.3	509.3	ug/l	1.38	#VALUE!	
59	Co	# 3	4.732	4.732	ug/l	1.91	#VALUE!	
60	Ni	# 2	10.08	10.08	ug/l	0.84	#VALUE!	
63	Cu	# 2	10.13	10.13	ug/l	1.36	#VALUE!	
65	Cu	# 2	9.979	9.979	ug/l	0.79	#VALUE!	
65	Cu	# 3	10.16	10.16	ug/l	2.42	#VALUE!	
66	Zn	# 3	9.911	9.911	ug/l	2.65	#VALUE!	
68	Zn	# 3	10.01	10.01	ug/l	2.88	#VALUE!	
70	Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75	As	# 2	9.73	9.73	ug/l	2.09	#VALUE!	
78	Se	# 1	9.57	9.57	ug/l	0.63	#VALUE!	
88	Sr	# 3	9.646	9.646	ug/l	0.96	#VALUE!	
90	Zr	# 3	46.14	46.14	ug/l	0.71	#VALUE!	
91	Zr	# 3	45.41	45.41	ug/l	0.38	#VALUE!	
95	Mo	# 3	9.551	9.551	ug/l	1.27	#VALUE!	
107	Ag	# 3	4.898	4.898	ug/l	1.38	#VALUE!	
111	Cd	# 3	4.928	4.928	ug/l	2.38	#VALUE!	
118	Sn	# 3	11	11	ug/l	1.38	#VALUE!	
121	Sb	# 3	4.645	4.645	ug/l	0.41	#VALUE!	
137	Ba	# 3	9.764	9.764	ug/l	1.14	#VALUE!	
201	Hg	# 3	0.4489	0.4489	ug/l	4.69	#VALUE!	
202	Hg	# 3	0.4326	0.4326	ug/l	2.15	#VALUE!	
203	Tl	# 3	3.961	3.961	ug/l	2.27	#VALUE!	
205	Tl	# 3	3.978	3.978	ug/l	0.79	#VALUE!	
208	Pb	# 3	4.842	4.842	ug/l	1.35	#VALUE!	
232	Th	# 3	9.222	9.222	ug/l	0.91	#VALUE!	
238	U	# 3	9.287	9.287	ug/l	1.31	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	467482.53	3.09	531519.69	88.0	60 - 125	
45	Sc	# 1	244586.00	0.74	282316.44	86.6	60 - 125	
45	Sc	# 3	709644.94	0.88	802725.75	88.4	60 - 125	
74	Ge	# 1	96226.10	0.65	109028.65	88.3	60 - 125	
74	Ge	# 2	17907.43	2.94	20216.41	88.6	60 - 125	
74	Ge	# 3	184505.89	2.00	209704.94	88.0	60 - 125	
89	Y	# 3	1030974.90	1.67	1159007.90	89.0	60 - 125	
115	In	# 3	1133400.40	1.81	1277748.90	88.7	60 - 125	
159	Tb	# 3	1729600.10	0.96	1896321.40	91.2	60 - 125	
209	Bi	# 3	1053556.10	1.22	1156151.50	91.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\037SMPL.D\037SMPL.D#
Date Acquired:	Mar 25 2009 03:49 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-1
Misc Info:	3050 1/10
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.5211	0.5211	ug/l	2.56	#VALUE!	
11 B	# 3	2.302	2.302	ug/l	2.73	#VALUE!	
23 Na	# 1	149.6	149.6	ug/l	0.45	#VALUE!	
24 Mg	# 1	1061	1061	ug/l	0.23	#VALUE!	
27 Al	# 1	14640	14640	ug/l	0.44	#VALUE!	
39 K	# 2	743.5	743.5	ug/l	0.27	#VALUE!	
40 Ca	# 1	1630	1630	ug/l	0.45	#VALUE!	
45 Sc	# 2	----	---------	ug/l	--------	#VALUE!	
47 Ti	# 3	266	266	ug/l	0.99	#VALUE!	
51 V	# 2	41.59	41.59	ug/l	0.23	#VALUE!	
52 Cr	# 2	24.74	24.74	ug/l	0.25	#VALUE!	
55 Mn	# 3	89.82	89.82	ug/l	0.39	#VALUE!	
56 Fe	# 1	19180	19180	ug/l	0.40	#VALUE!	
59 Co	# 3	4.396	4.396	ug/l	0.56	#VALUE!	
60 Ni	# 2	8.094	8.094	ug/l	3.18	#VALUE!	
63 Cu	# 2	14.52	14.52	ug/l	0.88	#VALUE!	
65 Cu	# 2	14.54	14.54	ug/l	2.31	#VALUE!	
65 Cu	# 3	14.74	14.74	ug/l	0.49	#VALUE!	
66 Zn	# 3	36.75	36.75	ug/l	1.48	#VALUE!	
68 Zn	# 3	37.91	37.91	ug/l	0.73	#VALUE!	
70 Ge	# 2	----	---------	ug/l	--------	#VALUE!	
75 As	# 2	1.699	1.699	ug/l	3.75	#VALUE!	
78 Se	# 1	0.2414	0.2414	ug/l	12.86	#VALUE!	
88 Sr	# 3	15.27	15.27	ug/l	0.82	#VALUE!	
90 Zr	# 3	3.48	3.48	ug/l	4.11	#VALUE!	
91 Zr	# 3	3.37	3.37	ug/l	1.95	#VALUE!	
95 Mo	# 3	0.4778	0.4778	ug/l	9.60	#VALUE!	
107 Ag	# 3	0.03877	0.03877	ug/l	5.86	#VALUE!	
111 Cd	# 3	0.06001	0.06001	ug/l	18.13	#VALUE!	
118 Sn	# 3	2.425	2.425	ug/l	1.87	#VALUE!	
121 Sb	# 3	0.2248	0.2248	ug/l	5.91	#VALUE!	
137 Ba	# 3	65.13	65.13	ug/l	1.26	#VALUE!	
201 Hg	# 3	0.02802	0.02802	ug/l	2.72	#VALUE!	
202 Hg	# 3	0.03348	0.03348	ug/l	7.58	#VALUE!	
203 Tl	# 3	0.1933	0.1933	ug/l	2.65	#VALUE!	
205 Tl	# 3	0.1972	0.1972	ug/l	1.77	#VALUE!	
208 Pb	# 3	14.49	14.49	ug/l	0.79	#VALUE!	
232 Th	# 3	6.209	6.209	ug/l	0.55	#VALUE!	
238 U	# 3	1.156	1.156	ug/l	0.87	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	472230.97	1.18	531519.69	88.8	60 - 125	
45 Sc	# 1	273697.59	1.05	282316.44	96.9	60 - 125	
45 Sc	# 3	825730.88	2.58	802725.75	102.9	60 - 125	
74 Ge	# 1	95067.45	0.56	109028.65	87.2	60 - 125	
74 Ge	# 2	17717.54	2.87	20216.41	87.6	60 - 125	
74 Ge	# 3	187013.80	1.20	209704.94	89.2	60 - 125	
89 Y	# 3	1193957.10	2.64	1159007.90	103.0	60 - 125	
115 In	# 3	1132782.30	1.02	1277748.90	88.7	60 - 125	
159 Tb	# 3	1744184.60	0.78	1896321.40	92.0	60 - 125	
209 Bi	# 3	1039822.90	2.11	1156151.50	89.9	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\038SMPL.D\038SMPL.D#
Date Acquired:	Mar 25 2009 03:56 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-2
Misc Info:	3050 1/10
Vial Number:	2104
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.5329	0.5329	ug/l	6.56	#VALUE!	
11 B	# 3	2.993	2.993	ug/l	21.43	#VALUE!	
23 Na	# 1	1767	1767	ug/l	0.14	#VALUE!	
24 Mg	# 1	712.4	712.4	ug/l	0.86	#VALUE!	
27 Al	# 1	23000	23000	ug/l	1.08	#VALUE!	
39 K	# 2	508.8	508.8	ug/l	2.71	#VALUE!	
40 Ca	# 1	780.7	780.7	ug/l	0.38	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	225.1	225.1	ug/l	3.53	#VALUE!	
51 V	# 2	56.93	56.93	ug/l	1.96	#VALUE!	
52 Cr	# 2	29.19	29.19	ug/l	2.04	#VALUE!	
55 Mn	# 3	58.44	58.44	ug/l	1.07	#VALUE!	
56 Fe	# 1	23660	23660	ug/l	0.49	#VALUE!	
59 Co	# 3	5.673	5.673	ug/l	9.09	#VALUE!	
60 Ni	# 2	7.634	7.634	ug/l	3.63	#VALUE!	
63 Cu	# 2	8.416	8.416	ug/l	2.81	#VALUE!	
65 Cu	# 2	8.469	8.469	ug/l	1.28	#VALUE!	
65 Cu	# 3	8.843	8.843	ug/l	6.38	#VALUE!	
66 Zn	# 3	25.34	25.34	ug/l	0.44	#VALUE!	
68 Zn	# 3	25.92	25.92	ug/l	0.26	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	2.258	2.258	ug/l	2.27	#VALUE!	
78 Se	# 1	0.3399	0.3399	ug/l	3.48	#VALUE!	
88 Sr	# 3	9.828	9.828	ug/l	3.99	#VALUE!	
90 Zr	# 3	4.724	4.724	ug/l	13.68	#VALUE!	
91 Zr	# 3	4.727	4.727	ug/l	17.88	#VALUE!	
95 Mo	# 3	1.458	1.458	ug/l	88.48	#VALUE!	
107 Ag	# 3	0.07048	0.07048	ug/l	117.37	#VALUE!	
111 Cd	# 3	0.06711	0.06711	ug/l	99.33	#VALUE!	
118 Sn	# 3	2.56	2.56	ug/l	19.82	#VALUE!	
121 Sb	# 3	0.2057	0.2057	ug/l	36.58	#VALUE!	
137 Ba	# 3	34.8	34.8	ug/l	0.52	#VALUE!	
201 Hg	# 3	0.03739	0.03739	ug/l	11.42	#VALUE!	
202 Hg	# 3	0.04281	0.04281	ug/l	10.12	#VALUE!	
203 Tl	# 3	0.2906	0.2906	ug/l	8.27	#VALUE!	
205 Tl	# 3	0.2906	0.2906	ug/l	8.02	#VALUE!	
208 Pb	# 3	15.14	15.14	ug/l	1.61	#VALUE!	
232 Th	# 3	6.349	6.349	ug/l	0.18	#VALUE!	
238 U	# 3	1.152	1.152	ug/l	5.59	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	504873.13	3.45	531519.69	95.0	60 - 125	
45 Sc	# 1	291604.69	1.16	282316.44	103.3	60 - 125	
45 Sc	# 3	879190.38	2.78	802725.75	109.5	60 - 125	
74 Ge	# 1	99663.91	1.34	109028.65	91.4	60 - 125	
74 Ge	# 2	18597.66	2.63	20216.41	92.0	60 - 125	
74 Ge	# 3	197784.13	3.08	209704.94	94.3	60 - 125	
89 Y	# 3	1158260.30	1.76	1159007.90	99.9	60 - 125	
115 In	# 3	1183921.40	2.83	1277748.90	92.7	60 - 125	
159 Tb	# 3	1805126.40	3.10	1896321.40	95.2	60 - 125	
209 Bi	# 3	1048986.00	2.68	1156151.50	90.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\039SMPL.D\039SMPL.D#
Date Acquired:	Mar 25 2009 04:03 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-3
Misc Info:	3050 1/10
Vial Number:	2105
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.5269	0.5269	ug/l	3.42	#VALUE!	
11 B	# 3	2.004	2.004	ug/l	2.77	#VALUE!	
23 Na	# 1	171.3	171.3	ug/l	1.05	#VALUE!	
24 Mg	# 1	744.6	744.6	ug/l	0.97	#VALUE!	
27 Al	# 1	12000	12000	ug/l	0.72	#VALUE!	
39 K	# 2	500.9	500.9	ug/l	1.38	#VALUE!	
40 Ca	# 1	1202	1202	ug/l	0.23	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	--------	#VALUE!	
47 Ti	# 3	246.8	246.8	ug/l	1.69	#VALUE!	
51 V	# 2	32.85	32.85	ug/l	1.65	#VALUE!	
52 Cr	# 2	19.23	19.23	ug/l	1.51	#VALUE!	
55 Mn	# 3	115.3	115.3	ug/l	1.01	#VALUE!	
56 Fe	# 1	11170	11170	ug/l	0.92	#VALUE!	
59 Co	# 3	6.077	6.077	ug/l	0.57	#VALUE!	
60 Ni	# 2	8.004	8.004	ug/l	1.90	#VALUE!	
63 Cu	# 2	41.99	41.99	ug/l	1.57	#VALUE!	
65 Cu	# 2	41.83	41.83	ug/l	1.11	#VALUE!	
65 Cu	# 3	42.47	42.47	ug/l	0.49	#VALUE!	
66 Zn	# 3	27.93	27.93	ug/l	0.18	#VALUE!	
68 Zn	# 3	30.17	30.17	ug/l	1.56	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	--------	#VALUE!	
75 As	# 2	2.516	2.516	ug/l	4.15	#VALUE!	
78 Se	# 1	0.2381	0.2381	ug/l	8.64	#VALUE!	
88 Sr	# 3	12.36	12.36	ug/l	0.92	#VALUE!	
90 Zr	# 3	2.7	2.7	ug/l	1.62	#VALUE!	
91 Zr	# 3	2.638	2.638	ug/l	1.75	#VALUE!	
95 Mo	# 3	0.4849	0.4849	ug/l	1.56	#VALUE!	
107 Ag	# 3	0.5285	0.5285	ug/l	0.75	#VALUE!	
111 Cd	# 3	0.05292	0.05292	ug/l	3.56	#VALUE!	
118 Sn	# 3	2.213	2.213	ug/l	2.03	#VALUE!	
121 Sb	# 3	0.2501	0.2501	ug/l	1.98	#VALUE!	
137 Ba	# 3	96.99	96.99	ug/l	0.51	#VALUE!	
201 Hg	# 3	0.05518	0.05518	ug/l	9.48	#VALUE!	
202 Hg	# 3	0.05809	0.05809	ug/l	3.93	#VALUE!	
203 Tl	# 3	0.167	0.167	ug/l	3.38	#VALUE!	
205 Tl	# 3	0.1657	0.1657	ug/l	1.34	#VALUE!	
208 Pb	# 3	18.2	18.2	ug/l	0.43	#VALUE!	
232 Th	# 3	4.753	4.753	ug/l	0.59	#VALUE!	
238 U	# 3	1.138	1.138	ug/l	1.38	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	510597.28	1.37	531519.69	96.1	60 - 125	
45 Sc	# 1	273275.19	1.28	282316.44	96.8	60 - 125	
45 Sc	# 3	862772.56	1.51	802725.75	107.5	60 - 125	
74 Ge	# 1	96604.63	0.95	109028.65	88.6	60 - 125	
74 Ge	# 2	18291.67	3.67	20216.41	90.5	60 - 125	
74 Ge	# 3	197814.16	1.83	209704.94	94.3	60 - 125	
89 Y	# 3	1245617.90	2.00	1159007.90	107.5	60 - 125	
115 In	# 3	1207066.90	2.09	1277748.90	94.5	60 - 125	
159 Tb	# 3	1824237.90	1.36	1896321.40	96.2	60 - 125	
209 Bi	# 3	1072609.60	1.70	1156151.50	92.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed

0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass

ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\040SMPL.D\040SMPL.D#
Date Acquired:	Mar 25 2009 04:10 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-4
Misc Info:	3050 1/10
Vial Number:	2106
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.5657	0.5657	ug/l	1.91	#VALUE!	
11 B	# 3	1.812	1.812	ug/l	0.94	#VALUE!	
23 Na	# 1	92.15	92.15	ug/l	0.84	#VALUE!	
24 Mg	# 1	804.3	804.3	ug/l	0.48	#VALUE!	
27 Al	# 1	18020	18020	ug/l	0.80	#VALUE!	
39 K	# 2	477.5	477.5	ug/l	0.56	#VALUE!	
40 Ca	# 1	788.7	788.7	ug/l	0.67	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	217.4	217.4	ug/l	1.01	#VALUE!	
51 V	# 2	58.84	58.84	ug/l	0.48	#VALUE!	
52 Cr	# 2	33.97	33.97	ug/l	0.77	#VALUE!	
55 Mn	# 3	51.36	51.36	ug/l	0.64	#VALUE!	
56 Fe	# 1	22470	22470	ug/l	0.45	#VALUE!	
59 Co	# 3	5.584	5.584	ug/l	0.64	#VALUE!	
60 Ni	# 2	8.854	8.854	ug/l	1.15	#VALUE!	
63 Cu	# 2	19	19	ug/l	0.39	#VALUE!	
65 Cu	# 2	18.87	18.87	ug/l	1.13	#VALUE!	
65 Cu	# 3	19.06	19.06	ug/l	0.46	#VALUE!	
66 Zn	# 3	35.8	35.8	ug/l	0.93	#VALUE!	
68 Zn	# 3	37.45	37.45	ug/l	1.15	#VALUE!	
70 Ge	# 2	----	--------	ug/l	---------	#VALUE!	
75 As	# 2	3.402	3.402	ug/l	3.50	#VALUE!	
78 Se	# 1	0.4652	0.4652	ug/l	3.14	#VALUE!	
88 Sr	# 3	9.751	9.751	ug/l	0.63	#VALUE!	
90 Zr	# 3	2.489	2.489	ug/l	1.16	#VALUE!	
91 Zr	# 3	2.514	2.514	ug/l	3.58	#VALUE!	
95 Mo	# 3	1.186	1.186	ug/l	4.02	#VALUE!	
107 Ag	# 3	0.09562	0.09562	ug/l	2.62	#VALUE!	
111 Cd	# 3	0.03361	0.03361	ug/l	25.99	#VALUE!	
118 Sn	# 3	3.157	3.157	ug/l	2.17	#VALUE!	
121 Sb	# 3	0.4406	0.4406	ug/l	5.01	#VALUE!	
137 Ba	# 3	97.92	97.92	ug/l	0.97	#VALUE!	
201 Hg	# 3	0.111	0.111	ug/l	4.61	#VALUE!	
202 Hg	# 3	0.112	0.112	ug/l	2.77	#VALUE!	
203 Tl	# 3	0.1956	0.1956	ug/l	4.05	#VALUE!	
205 Tl	# 3	0.188	0.188	ug/l	0.38	#VALUE!	
208 Pb	# 3	41.9	41.9	ug/l	0.48	#VALUE!	
232 Th	# 3	6.135	6.135	ug/l	0.34	#VALUE!	
238 U	# 3	1.305	1.305	ug/l	0.37	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	514086.81	2.57	531519.69	96.7	60 - 125	
45 Sc	# 1	305649.84	1.45	282316.44	108.3	60 - 125	
45 Sc	# 3	894802.50	0.63	802725.75	111.5	60 - 125	
74 Ge	# 1	103909.32	1.53	109028.65	95.3	60 - 125	
74 Ge	# 2	18991.20	2.39	20216.41	93.9	60 - 125	
74 Ge	# 3	199090.48	2.01	209704.94	94.9	60 - 125	
89 Y	# 3	1231786.10	1.73	1159007.90	106.3	60 - 125	
115 In	# 3	1201282.40	2.21	1277748.90	94.0	60 - 125	
159 Tb	# 3	1831053.10	0.98	1896321.40	96.6	60 - 125	
209 Bi	# 3	1055075.10	2.28	1156151.50	91.3	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\041SMPL.D\041SMPL.D#
Date Acquired:	Mar 25 2009 04:16 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-4L
Misc Info:	3050 1/50
Vial Number:	2107
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	5.00
Autodil Factor:	Undiluted
Final Dil Factor:	5.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.612	0.1224	ug/l	11.64	#VALUE!	
11 B	# 3	3.5075	0.7015	ug/l	5.91	#VALUE!	
23 Na	# 1	91.7	18.34	ug/l	1.54	#VALUE!	
24 Mg	# 1	859	171.8	ug/l	0.64	#VALUE!	
27 Al	# 1	19620	3924	ug/l	0.38	#VALUE!	
39 K	# 2	448.25	89.65	ug/l	6.54	#VALUE!	
40 Ca	# 1	885.5	177.1	ug/l	0.63	#VALUE!	
45 Sc	# 2	----	---------	ug/l	--------	#VALUE!	
47 Ti	# 3	247.05	49.41	ug/l	1.62	#VALUE!	
51 V	# 2	55.45	11.09	ug/l	2.23	#VALUE!	
52 Cr	# 2	32.52	6.504	ug/l	0.51	#VALUE!	
55 Mn	# 3	47.385	9.477	ug/l	0.80	#VALUE!	
56 Fe	# 1	24520	4904	ug/l	0.47	#VALUE!	
59 Co	# 3	5.59	1.118	ug/l	0.22	#VALUE!	
60 Ni	# 2	12.935	2.587	ug/l	2.51	#VALUE!	
63 Cu	# 2	18.64	3.728	ug/l	1.46	#VALUE!	
65 Cu	# 2	18.76	3.752	ug/l	0.61	#VALUE!	
65 Cu	# 3	18.95	3.79	ug/l	1.50	#VALUE!	
66 Zn	# 3	36.38	7.276	ug/l	0.32	#VALUE!	
68 Zn	# 3	39.055	7.811	ug/l	0.53	#VALUE!	
70 Ge	# 2	----	---------	ug/l	--------	#VALUE!	
75 As	# 2	3.172	0.6344	ug/l	1.73	#VALUE!	
78 Se	# 1	0.47515	0.09503	ug/l	12.37	#VALUE!	
88 Sr	# 3	10.34	2.068	ug/l	0.24	#VALUE!	
90 Zr	# 3	2.8415	0.5683	ug/l	11.72	#VALUE!	
91 Zr	# 3	2.516	0.5032	ug/l	2.04	#VALUE!	
95 Mo	# 3	1.287	0.2574	ug/l	7.28	#VALUE!	
107 Ag	# 3	0.09375	0.01875	ug/l	13.83	#VALUE!	
111 Cd	# 3	0.04126	0.008252	ug/l	47.13	#VALUE!	
118 Sn	# 3	3.235	0.647	ug/l	3.41	#VALUE!	
121 Sb	# 3	0.44265	0.08853	ug/l	10.36	#VALUE!	
137 Ba	# 3	96.4	19.28	ug/l	1.87	#VALUE!	
201 Hg	# 3	0.1292	0.02584	ug/l	13.55	#VALUE!	
202 Hg	# 3	0.13035	0.02607	ug/l	4.47	#VALUE!	
203 Tl	# 3	0.1915	0.0383	ug/l	2.66	#VALUE!	
205 Tl	# 3	0.19615	0.03923	ug/l	3.00	#VALUE!	
208 Pb	# 3	42.115	8.423	ug/l	0.54	#VALUE!	
232 Th	# 3	5.885	1.177	ug/l	0.64	#VALUE!	
238 U	# 3	1.266	0.2532	ug/l	2.35	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	490575.97	4.18	531519.69	92.3	60 - 125	
45 Sc	# 1	260126.86	0.53	282316.44	92.1	60 - 125	
45 Sc	# 3	767289.00	1.95	802725.75	95.6	60 - 125	
74 Ge	# 1	99128.52	0.46	109028.65	90.9	60 - 125	
74 Ge	# 2	18147.77	2.41	20216.41	89.8	60 - 125	
74 Ge	# 3	191840.23	1.74	209704.94	91.5	60 - 125	
89 Y	# 3	1095463.40	2.15	1159007.90	94.5	60 - 125	
115 In	# 3	1179178.40	2.09	1277748.90	92.3	60 - 125	
159 Tb	# 3	1778283.90	1.89	1896321.40	93.8	60 - 125	
209 Bi	# 3	1071820.30	2.07	1156151.50	92.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\042SMPL.D\042SMPL.D#
Date Acquired:	Mar 25 2009 04:23 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-4A
Misc Info:	3050 1/10
Vial Number:	2108
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	19.71	19.71	ug/l	1.90	#VALUE!	
11 B	# 3	41.34	41.34	ug/l	0.91	#VALUE!	
23 Na	# 1	1969	1969	ug/l	0.15	#VALUE!	
24 Mg	# 1	2666	2666	ug/l	0.33	#VALUE!	
27 Al	# 1	19180	19180	ug/l	0.18	#VALUE!	
39 K	# 2	2462	2462	ug/l	1.22	#VALUE!	
40 Ca	# 1	2672	2672	ug/l	0.14	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	236.1	236.1	ug/l	0.22	#VALUE!	
51 V	# 2	81.31	81.31	ug/l	0.89	#VALUE!	
52 Cr	# 2	55.51	55.51	ug/l	1.04	#VALUE!	
55 Mn	# 3	247.3	247.3	ug/l	1.23	#VALUE!	
56 Fe	# 1	25470	25470	ug/l	0.70	#VALUE!	
59 Co	# 3	24.83	24.83	ug/l	1.93	#VALUE!	
60 Ni	# 2	30.02	30.02	ug/l	1.42	#VALUE!	
63 Cu	# 2	40.25	40.25	ug/l	1.04	#VALUE!	
65 Cu	# 2	40.47	40.47	ug/l	1.20	#VALUE!	
65 Cu	# 3	39.17	39.17	ug/l	2.23	#VALUE!	
66 Zn	# 3	53.41	53.41	ug/l	0.74	#VALUE!	
68 Zn	# 3	56.03	56.03	ug/l	0.80	#VALUE!	
70 Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75 As	# 2	23.59	23.59	ug/l	1.19	#VALUE!	
78 Se	# 1	20.64	20.64	ug/l	0.64	#VALUE!	
88 Sr	# 3	26.84	26.84	ug/l	2.87	#VALUE!	
90 Zr	# 3	172.1	172.1	ug/l	1.34	#VALUE!	
91 Zr	# 3	162	162	ug/l	1.32	#VALUE!	
95 Mo	# 3	20.14	20.14	ug/l	0.60	#VALUE!	
107 Ag	# 3	17.38	17.38	ug/l	0.38	#VALUE!	
111 Cd	# 3	18.99	18.99	ug/l	2.48	#VALUE!	
118 Sn	# 3	22.28	22.28	ug/l	0.55	#VALUE!	
121 Sb	# 3	18.01	18.01	ug/l	0.62	#VALUE!	
137 Ba	# 3	117.9	117.9	ug/l	0.69	#VALUE!	
201 Hg	# 3	1.11	1.11	ug/l	2.69	#VALUE!	
202 Hg	# 3	1.131	1.131	ug/l	0.45	#VALUE!	
203 Tl	# 3	4.036	4.036	ug/l	0.35	#VALUE!	
205 Tl	# 3	4.057	4.057	ug/l	1.41	#VALUE!	
208 Pb	# 3	62.72	62.72	ug/l	0.70	#VALUE!	
232 Th	# 3	26.04	26.04	ug/l	1.78	#VALUE!	
238 U	# 3	19.64	19.64	ug/l	1.51	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	487647.19	1.58	531519.69	91.7	60 - 125	
45 Sc	# 1	309365.94	1.40	282316.44	109.6	60 - 125	
45 Sc	# 3	880259.25	0.51	802725.75	109.7	60 - 125	
74 Ge	# 1	103993.35	1.70	109028.65	95.4	60 - 125	
74 Ge	# 2	19103.96	2.27	20216.41	94.5	60 - 125	
74 Ge	# 3	195376.42	1.05	209704.94	93.2	60 - 125	
89 Y	# 3	1221390.90	1.03	1159007.90	105.4	60 - 125	
115 In	# 3	1187065.30	0.54	1277748.90	92.9	60 - 125	
159 Tb	# 3	1804324.40	1.01	1896321.40	95.1	60 - 125	
209 Bi	# 3	1040435.40	1.52	1156151.50	90.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\043SMPL.D\043SMPL.D#
Date Acquired:	Mar 25 2009 04:30 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-4S
Misc Info:	3050 1/10
Vial Number:	2109
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnoxm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	5.254	5.254	ug/l	0.55	#VALUE!	
11 B	# 3	19.35	19.35	ug/l	1.46	#VALUE!	
23 Na	# 1	547	547	ug/l	0.74	#VALUE!	
24 Mg	# 1	1379	1379	ug/l	0.93	#VALUE!	
27 Al	# 1	19870	19870	ug/l	0.31	#VALUE!	
39 K	# 2	970.9	970.9	ug/l	0.73	#VALUE!	
40 Ca	# 1	1415	1415	ug/l	0.84	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	--------	#VALUE!	
47 Ti	# 3	224.2	224.2	ug/l	0.79	#VALUE!	
51 V	# 2	61	61	ug/l	0.79	#VALUE!	
52 Cr	# 2	44.61	44.61	ug/l	0.27	#VALUE!	
55 Mn	# 3	111.9	111.9	ug/l	0.58	#VALUE!	
56 Fe	# 1	21650	21650	ug/l	0.33	#VALUE!	
59 Co	# 3	9.511	9.511	ug/l	1.08	#VALUE!	
60 Ni	# 2	20.39	20.39	ug/l	1.15	#VALUE!	
63 Cu	# 2	31	31	ug/l	1.08	#VALUE!	
65 Cu	# 2	31.09	31.09	ug/l	1.01	#VALUE!	
65 Cu	# 3	30.45	30.45	ug/l	0.34	#VALUE!	
66 Zn	# 3	41.43	41.43	ug/l	0.22	#VALUE!	
68 Zn	# 3	43.25	43.25	ug/l	0.99	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	--------	#VALUE!	
75 As	# 2	11.99	11.99	ug/l	0.87	#VALUE!	
78 Se	# 1	9.218	9.218	ug/l	0.10	#VALUE!	
88 Sr	# 3	19.3	19.3	ug/l	0.32	#VALUE!	
90 Zr	# 3	29.2	29.2	ug/l	0.80	#VALUE!	
91 Zr	# 3	28.87	28.87	ug/l	0.97	#VALUE!	
95 Mo	# 3	12.52	12.52	ug/l	1.85	#VALUE!	
107 Ag	# 3	4.794	4.794	ug/l	1.11	#VALUE!	
111 Cd	# 3	4.713	4.713	ug/l	2.19	#VALUE!	
118 Sn	# 3	11.68	11.68	ug/l	0.21	#VALUE!	
121 Sb	# 3	4.184	4.184	ug/l	0.38	#VALUE!	
137 Ba	# 3	84.93	84.93	ug/l	1.18	#VALUE!	
201 Hg	# 3	0.5122	0.5122	ug/l	3.74	#VALUE!	
202 Hg	# 3	0.5098	0.5098	ug/l	1.06	#VALUE!	
203 Tl	# 3	3.895	3.895	ug/l	0.67	#VALUE!	
205 Tl	# 3	3.935	3.935	ug/l	1.05	#VALUE!	
208 Pb	# 3	49.29	49.29	ug/l	0.74	#VALUE!	
232 Th	# 3	15.43	15.43	ug/l	1.04	#VALUE!	
238 U	# 3	10.37	10.37	ug/l	1.51	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	500705.34	0.80	531519.69	94.2	60 - 125	
45 Sc	# 1	291110.28	1.69	282316.44	103.1	60 - 125	
45 Sc	# 3	885969.88	0.94	802725.75	110.4	60 - 125	
74 Ge	# 1	98563.94	2.11	109028.65	90.4	60 - 125	
74 Ge	# 2	18585.04	2.88	20216.41	91.9	60 - 125	
74 Ge	# 3	196748.33	0.85	209704.94	93.8	60 - 125	
89 Y	# 3	1242179.30	0.95	1159007.90	107.2	60 - 125	
115 In	# 3	1193035.90	1.78	1277748.90	93.4	60 - 125	
159 Tb	# 3	1797038.50	1.38	1896321.40	94.8	60 - 125	
209 Bi	# 3	1033500.50	2.51	1156151.50	89.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\044SMPL.D\044SMPL.D#
Date Acquired: Mar 25 2009 04:36 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-4SD
Misc Info: 3050 1/10
Vial Number: 2110
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	5.296	5.296	ug/l	1.91	#VALUE!	
11 B	# 3	19.07	19.07	ug/l	2.52	#VALUE!	
23 Na	# 1	539.2	539.2	ug/l	0.40	#VALUE!	
24 Mg	# 1	1333	1333	ug/l	0.66	#VALUE!	
27 Al	# 1	20660	20660	ug/l	0.29	#VALUE!	
39 K	# 2	940.3	940.3	ug/l	1.26	#VALUE!	
40 Ca	# 1	1301	1301	ug/l	0.75	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	236.8	236.8	ug/l	0.55	#VALUE!	
51 V	# 2	59.96	59.96	ug/l	1.43	#VALUE!	
52 Cr	# 2	41.2	41.2	ug/l	1.41	#VALUE!	
55 Mn	# 3	101	101	ug/l	0.78	#VALUE!	
56 Fe	# 1	18420	18420	ug/l	0.35	#VALUE!	
59 Co	# 3	9.378	9.378	ug/l	1.15	#VALUE!	
60 Ni	# 2	19.74	19.74	ug/l	0.45	#VALUE!	
63 Cu	# 2	26.51	26.51	ug/l	0.98	#VALUE!	
65 Cu	# 2	26.34	26.34	ug/l	1.21	#VALUE!	
65 Cu	# 3	26.68	26.68	ug/l	0.55	#VALUE!	
66 Zn	# 3	38.47	38.47	ug/l	0.86	#VALUE!	
68 Zn	# 3	39.56	39.56	ug/l	1.36	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	---------	#VALUE!	
75 As	# 2	11.07	11.07	ug/l	2.04	#VALUE!	
78 Se	# 1	9.056	9.056	ug/l	2.39	#VALUE!	
88 Sr	# 3	19.05	19.05	ug/l	0.72	#VALUE!	
90 Zr	# 3	31.88	31.88	ug/l	1.64	#VALUE!	
91 Zr	# 3	31.51	31.51	ug/l	1.95	#VALUE!	
95 Mo	# 3	9.964	9.964	ug/l	1.63	#VALUE!	
107 Ag	# 3	4.934	4.934	ug/l	1.31	#VALUE!	
111 Cd	# 3	4.826	4.826	ug/l	1.83	#VALUE!	
118 Sn	# 3	11.88	11.88	ug/l	2.06	#VALUE!	
121 Sb	# 3	4.437	4.437	ug/l	0.81	#VALUE!	
137 Ba	# 3	81.1	81.1	ug/l	1.25	#VALUE!	
201 Hg	# 3	0.5117	0.5117	ug/l	3.41	#VALUE!	
202 Hg	# 3	0.5272	0.5272	ug/l	2.31	#VALUE!	
203 Tl	# 3	4.008	4.008	ug/l	1.41	#VALUE!	
205 Tl	# 3	4.062	4.062	ug/l	0.59	#VALUE!	
208 Pb	# 3	39.22	39.22	ug/l	0.67	#VALUE!	
232 Th	# 3	15.24	15.24	ug/l	0.47	#VALUE!	
238 U	# 3	10.76	10.76	ug/l	0.23	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	492806.66	1.85	531519.69	92.7	60 - 125	
45 Sc	# 1	296710.16	2.26	282316.44	105.1	60 - 125	
45 Sc	# 3	883519.25	0.53	802725.75	110.1	60 - 125	
74 Ge	# 1	99877.74	2.04	109028.65	91.6	60 - 125	
74 Ge	# 2	18942.23	3.46	20216.41	93.7	60 - 125	
74 Ge	# 3	197661.56	1.61	209704.94	94.3	60 - 125	
89 Y	# 3	1217892.10	1.87	1159007.90	105.1	60 - 125	
115 In	# 3	1181640.90	1.70	1277748.90	92.5	60 - 125	
159 Tb	# 3	1777000.00	1.13	1896321.40	93.7	60 - 125	
209 Bi	# 3	1019524.40	1.34	1156151.50	88.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\045_CCV.D\045_CCV.D#
Date Acquired: Mar 25 2009 04:43 pm
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)		Flag
9 Be	# 3	52.87 ug/l	0.32	50.00	90 -	110	
11 B	# 3	101.6 ug/l	1.87	100.00	90 -	110	
23 Na	# 1	4743 ug/l	4.22	5000.00	90 -	110	
24 Mg	# 1	4715 ug/l	4.46	5000.00	90 -	110	
27 Al	# 1	473.7 ug/l	5.31	500.00	90 -	110	
39 K	# 2	4455 ug/l	1.75	5000.00	90 -	110	Fail
40 Ca	# 1	4741 ug/l	4.41	5000.00	90 -	110	
45 Sc	# 2	-------- ug/l	--------	---	##### -	#####	
47 Ti	# 3	49.82 ug/l	2.11	50.00	90 -	110	
51 V	# 2	48.29 ug/l	0.87	50.00	90 -	110	
52 Cr	# 2	48.03 ug/l	0.19	50.00	90 -	110	
55 Mn	# 3	481.2 ug/l	0.33	500.00	90 -	110	
56 Fe	# 1	4863 ug/l	4.01	5000.00	90 -	110	
59 Co	# 3	50.08 ug/l	0.68	50.00	90 -	110	
60 Ni	# 2	50.47 ug/l	0.35	50.00	90 -	110	
63 Cu	# 2	49.84 ug/l	0.70	50.00	90 -	110	
65 Cu	# 2	50.34 ug/l	0.39	50.00	90 -	110	
65 Cu	# 3	50.21 ug/l	0.74	50.00	90 -	110	
66 Zn	# 3	48.97 ug/l	0.95	50.00	90 -	110	
68 Zn	# 3	48.51 ug/l	0.59	50.00	90 -	110	
70 Ge	# 2	-------- ug/l	--------	---	##### -	#####	
75 As	# 2	50.38 ug/l	1.20	50.00	90 -	110	
78 Se	# 1	48.75 ug/l	3.42	50.00	90 -	110	
88 Sr	# 3	48.9 ug/l	1.76	50.00	90 -	110	
90 Zr	# 3	484.2 ug/l	0.57	500.00	90 -	110	
91 Zr	# 3	493.3 ug/l	1.36	500.00	90 -	110	
95 Mo	# 3	47.83 ug/l	1.14	50.00	90 -	110	
107 Ag	# 3	48.42 ug/l	0.97	50.00	90 -	110	
111 Cd	# 3	48.52 ug/l	0.98	50.00	90 -	110	
118 Sn	# 3	48.47 ug/l	0.72	50.00	90 -	110	
121 Sb	# 3	45.9 ug/l	1.01	50.00	90 -	110	
137 Ba	# 3	48.41 ug/l	1.59	50.00	90 -	110	
201 Hg	# 3	2.477 ug/l	1.73	2.50	90 -	110	
202 Hg	# 3	2.445 ug/l	0.79	2.50	90 -	110	
203 Tl	# 3	9.607 ug/l	0.61	10.00	90 -	110	
205 Tl	# 3	9.569 ug/l	0.73	10.00	90 -	110	
208 Pb	# 3	45.82 ug/l	0.68	50.00	90 -	110	
232 Th	# 3	49.07 ug/l	0.19	---	##### -	#####	
238 U	# 3	48.75 ug/l	0.49	---	##### -	#####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	# 3	396566.69	2.03	531519.69	74.6	60 -	125	
45 Sc	# 1	245783.34	3.14	282316.44	87.1	60 -	125	
45 Sc	# 3	679945.31	2.81	802725.75	84.7	60 -	125	
74 Ge	# 1	98435.25	2.65	109028.65	90.3	60 -	125	
74 Ge	# 2	17721.24	1.75	20216.41	87.7	60 -	125	
74 Ge	# 3	180109.56	1.04	209704.94	85.9	60 -	125	
89 Y	# 3	1000377.60	2.13	1159007.90	86.3	60 -	125	
115 In	# 3	1087629.60	2.19	1277748.90	85.1	60 -	125	
159 Tb	# 3	1646994.50	1.69	1896321.40	86.9	60 -	125	
209 Bi	# 3	949237.88	1.37	1156151.50	82.1	60 -	125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\046_CCB.D\046_CCB.D#
Date Acquired: Mar 25 2009 04:50 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.006698 ug/l	68.26	#VALUE!	
11 B	1.219 ug/l	3.03	#VALUE!	
23 Na	-0.5233 ug/l	33.19	#VALUE!	
24 Mg	1.708 ug/l	3.56	#VALUE!	
27 Al	5.888 ug/l	6.63	#VALUE!	
39 K	0.3729 ug/l	299.01	#VALUE!	
40 Ca	1.671 ug/l	1.80	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.04731 ug/l	60.50	#VALUE!	
51 V	0.004394 ug/l	100.00	#VALUE!	
52 Cr	0.01655 ug/l	47.80	#VALUE!	
55 Mn	0.07536 ug/l	35.17	#VALUE!	
56 Fe	7.321 ug/l	2.83	#VALUE!	
59 Co	0.007226 ug/l	55.12	#VALUE!	
60 Ni	0.01964 ug/l	14.42	#VALUE!	
63 Cu	0.03389 ug/l	4.36	#VALUE!	
65 Cu	0.0235 ug/l	34.23	#VALUE!	
65 Cu	0.01754 ug/l	50.86	#VALUE!	
66 Zn	0.02116 ug/l	81.29	#VALUE!	
68 Zn	0.02127 ug/l	58.44	#VALUE!	
70 Ge	--------- ug/l	--------	#VALUE!	
75 As	0.04308 ug/l	3.81	#VALUE!	
78 Se	0.05608 ug/l	6.85	#VALUE!	
88 Sr	0.007449 ug/l	34.88	#VALUE!	
90 Zr	0.7399 ug/l	7.35	#VALUE!	
91 Zr	0.7346 ug/l	4.72	#VALUE!	
95 Mo	0.1365 ug/l	5.98	#VALUE!	
107 Ag	0.009848 ug/l	36.00	#VALUE!	
111 Cd	0.008209 ug/l	40.97	#VALUE!	
118 Sn	0.1132 ug/l	11.28	#VALUE!	
121 Sb	0.03454 ug/l	30.17	#VALUE!	
137 Ba	0.01402 ug/l	85.88	#VALUE!	
201 Hg	0.03462 ug/l	18.26	#VALUE!	
202 Hg	0.03294 ug/l	10.16	#VALUE!	
203 Tl	0.04973 ug/l	6.51	#VALUE!	
205 Tl	0.03999 ug/l	12.70	#VALUE!	
208 Pb	0.02078 ug/l	22.52	#VALUE!	
232 Th	0.07207 ug/l	13.30	#VALUE!	
238 U	0.01114 ug/l	28.64	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	445148.28	2.08	531519.69	83.8	60 - 125	
45 Sc	252819.30	1.08	282316.44	89.6	60 - 125	
45 Sc	699263.81	1.17	802725.75	87.1	60 - 125	
74 Ge	100918.54	1.30	109028.65	92.6	60 - 125	
74 Ge	18395.16	2.44	20216.41	91.0	60 - 125	
74 Ge	185551.88	1.47	209704.94	88.5	60 - 125	
89 Y	1029518.90	1.10	1159007.90	88.8	60 - 125	
115 In	1129532.10	1.88	1277748.90	88.4	60 - 125	
159 Tb	1683361.90	1.51	1896321.40	88.8	60 - 125	
209 Bi	996957.69	2.06	1156151.50	86.2	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\047SMPL.D\047SMPL.D#
Date Acquired:	Mar 25 2009 04:57 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45703-1
Misc Info:	3050 1/10
Vial Number:	2111
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.003479	0.003479	ug/l	20.98	#VALUE!	
11 B	# 3	1.152	1.152	ug/l	8.49	#VALUE!	
23 Na	# 1	523.1	523.1	ug/l	0.99	#VALUE!	
24 Mg	# 1	28.77	28.77	ug/l	1.79	#VALUE!	
27 Al	# 1	31.93	31.93	ug/l	2.38	#VALUE!	
39 K	# 2	98.66	98.66	ug/l	1.72	#VALUE!	
40 Ca	# 1	63.07	63.07	ug/l	0.18	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	1.933	1.933	ug/l	5.13	#VALUE!	
51 V	# 2	0.09921	0.09921	ug/l	12.38	#VALUE!	
52 Cr	# 2	1.022	1.022	ug/l	1.13	#VALUE!	
55 Mn	# 3	0.73	0.73	ug/l	1.40	#VALUE!	
56 Fe	# 1	66.18	66.18	ug/l	0.53	#VALUE!	
59 Co	# 3	0.05936	0.05936	ug/l	5.80	#VALUE!	
60 Ni	# 2	0.4113	0.4113	ug/l	6.62	#VALUE!	
63 Cu	# 2	0.406	0.406	ug/l	2.96	#VALUE!	
65 Cu	# 2	0.3953	0.3953	ug/l	1.30	#VALUE!	
65 Cu	# 3	0.3861	0.3861	ug/l	1.92	#VALUE!	
66 Zn	# 3	2.009	2.009	ug/l	4.44	#VALUE!	
68 Zn	# 3	1.94	1.94	ug/l	4.62	#VALUE!	
70 Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75 As	# 2	0.03783	0.03783	ug/l	25.31	#VALUE!	
78 Se	# 1	0.01701	0.01701	ug/l	59.20	#VALUE!	
88 Sr	# 3	0.1821	0.1821	ug/l	0.75	#VALUE!	
90 Zr	# 3	2.702	2.702	ug/l	4.93	#VALUE!	
91 Zr	# 3	2.732	2.732	ug/l	7.86	#VALUE!	
95 Mo	# 3	0.1428	0.1428	ug/l	8.07	#VALUE!	
107 Ag	# 3	0.07563	0.07563	ug/l	10.50	#VALUE!	
111 Cd	# 3	0.008174	0.008174	ug/l	38.39	#VALUE!	
118 Sn	# 3	1.309	1.309	ug/l	0.42	#VALUE!	
121 Sb	# 3	0.2391	0.2391	ug/l	1.41	#VALUE!	
137 Ba	# 3	0.5048	0.5048	ug/l	5.70	#VALUE!	
201 Hg	# 3	0.01061	0.01061	ug/l	35.73	#VALUE!	
202 Hg	# 3	0.01053	0.01053	ug/l	11.49	#VALUE!	
203 Tl	# 3	0.01919	0.01919	ug/l	12.58	#VALUE!	
205 Tl	# 3	0.01894	0.01894	ug/l	10.64	#VALUE!	
208 Pb	# 3	0.05967	0.05967	ug/l	6.15	#VALUE!	
232 Th	# 3	0.04761	0.04761	ug/l	8.32	#VALUE!	
238 U	# 3	0.007037	0.007037	ug/l	19.55	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	458479.16	1.77	531519.69	86.3	60 - 125	
45 Sc	# 1	253359.58	0.76	282316.44	89.7	60 - 125	
45 Sc	# 3	706751.31	0.84	802725.75	88.0	60 - 125	
74 Ge	# 1	98185.59	0.59	109028.65	90.1	60 - 125	
74 Ge	# 2	17870.68	1.32	20216.41	88.4	60 - 125	
74 Ge	# 3	182571.75	1.48	209704.94	87.1	60 - 125	
89 Y	# 3	1014663.80	0.95	1159007.90	87.5	60 - 125	
115 In	# 3	1123431.30	1.70	1277748.90	87.9	60 - 125	
159 Tb	# 3	1680476.10	0.90	1896321.40	88.6	60 - 125	
209 Bi	# 3	1015136.90	1.75	1156151.50	87.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\048SMPL.D\048SMPL.D#
Date Acquired: Mar 25 2009 05:03 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-5
Misc Info: 3050 1/10
Vial Number: 2112
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.582	0.582	ug/l	1.03	#VALUE!	
11 B	# 3	1.47	1.47	ug/l	2.61	#VALUE!	
23 Na	# 1	85.4	85.4	ug/l	1.38	#VALUE!	
24 Mg	# 1	1016	1016	ug/l	0.66	#VALUE!	
27 Al	# 1	10000	10000	ug/l	0.71	#VALUE!	
39 K	# 2	518.8	518.8	ug/l	1.02	#VALUE!	
40 Ca	# 1	1173	1173	ug/l	0.91	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	255.4	255.4	ug/l	1.51	#VALUE!	
51 V	# 2	29.46	29.46	ug/l	0.83	#VALUE!	
52 Cr	# 2	19.54	19.54	ug/l	1.69	#VALUE!	
55 Mn	# 3	91.72	91.72	ug/l	0.54	#VALUE!	
56 Fe	# 1	9920	9920	ug/l	0.65	#VALUE!	
59 Co	# 3	4.175	4.175	ug/l	1.06	#VALUE!	
60 Ni	# 2	7.311	7.311	ug/l	1.20	#VALUE!	
63 Cu	# 2	14.52	14.52	ug/l	1.20	#VALUE!	
65 Cu	# 2	14.62	14.62	ug/l	2.16	#VALUE!	
65 Cu	# 3	14.72	14.72	ug/l	1.44	#VALUE!	
66 Zn	# 3	37.79	37.79	ug/l	0.91	#VALUE!	
68 Zn	# 3	38.22	38.22	ug/l	0.45	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	1.661	1.661	ug/l	5.98	#VALUE!	
78 Se	# 1	0.2236	0.2236	ug/l	11.89	#VALUE!	
88 Sr	# 3	9.293	9.293	ug/l	0.31	#VALUE!	
90 Zr	# 3	2.216	2.216	ug/l	0.47	#VALUE!	
91 Zr	# 3	2.243	2.243	ug/l	1.96	#VALUE!	
95 Mo	# 3	0.3755	0.3755	ug/l	2.40	#VALUE!	
107 Ag	# 3	0.1555	0.1555	ug/l	6.62	#VALUE!	
111 Cd	# 3	0.04614	0.04614	ug/l	23.65	#VALUE!	
118 Sn	# 3	2.075	2.075	ug/l	2.29	#VALUE!	
121 Sb	# 3	0.1852	0.1852	ug/l	7.41	#VALUE!	
137 Ba	# 3	48.99	48.99	ug/l	1.00	#VALUE!	
201 Hg	# 3	0.03918	0.03918	ug/l	13.75	#VALUE!	
202 Hg	# 3	0.04042	0.04042	ug/l	0.84	#VALUE!	
203 Tl	# 3	0.153	0.153	ug/l	0.78	#VALUE!	
205 Tl	# 3	0.1521	0.1521	ug/l	5.57	#VALUE!	
208 Pb	# 3	15.89	15.89	ug/l	0.35	#VALUE!	
232 Th	# 3	5.845	5.845	ug/l	0.39	#VALUE!	
238 U	# 3	1.093	1.093	ug/l	1.06	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	487719.25	2.93	531519.69	91.8	60 - 125	
45 Sc	# 1	277730.59	0.68	282316.44	98.4	60 - 125	
45 Sc	# 3	799775.19	1.55	802725.75	99.6	60 - 125	
74 Ge	# 1	98931.68	0.83	109028.65	90.7	60 - 125	
74 Ge	# 2	18139.96	3.15	20216.41	89.7	60 - 125	
74 Ge	# 3	188124.78	0.89	209704.94	89.7	60 - 125	
89 Y	# 3	1290326.30	0.98	1159007.90	111.3	60 - 125	
115 In	# 3	1143832.90	1.53	1277748.90	89.5	60 - 125	
159 Tb	# 3	1772911.90	0.98	1896321.40	93.5	60 - 125	
209 Bi	# 3	1029741.90	1.50	1156151.50	89.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\049SMPL.D\049SMPL.D#
Date Acquired: Mar 25 2009 05:10 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-6
Misc Info: 3050 1/10
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.6635	0.6635	ug/l	1.82	#VALUE!	
11 B	# 3	1.545	1.545	ug/l	6.00	#VALUE!	
23 Na	# 1	37.44	37.44	ug/l	0.14	#VALUE!	
24 Mg	# 1	910.7	910.7	ug/l	1.22	#VALUE!	
27 Al	# 1	12710	12710	ug/l	0.67	#VALUE!	
39 K	# 2	618.4	618.4	ug/l	0.87	#VALUE!	
40 Ca	# 1	1399	1399	ug/l	0.40	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	187.1	187.1	ug/l	0.87	#VALUE!	
51 V	# 2	43.72	43.72	ug/l	1.04	#VALUE!	
52 Cr	# 2	24.1	24.1	ug/l	0.69	#VALUE!	
55 Mn	# 3	50.54	50.54	ug/l	0.66	#VALUE!	
56 Fe	# 1	14190	14190	ug/l	0.58	#VALUE!	
59 Co	# 3	3.846	3.846	ug/l	0.65	#VALUE!	
60 Ni	# 2	7.691	7.691	ug/l	1.99	#VALUE!	
63 Cu	# 2	14.47	14.47	ug/l	0.94	#VALUE!	
65 Cu	# 2	14.48	14.48	ug/l	0.33	#VALUE!	
65 Cu	# 3	14.8	14.8	ug/l	0.24	#VALUE!	
66 Zn	# 3	33.38	33.38	ug/l	0.33	#VALUE!	
68 Zn	# 3	34	34	ug/l	0.35	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	1.768	1.768	ug/l	7.81	#VALUE!	
78 Se	# 1	0.328	0.328	ug/l	7.19	#VALUE!	
88 Sr	# 3	12.55	12.55	ug/l	0.03	#VALUE!	
90 Zr	# 3	1.98	1.98	ug/l	2.31	#VALUE!	
91 Zr	# 3	2.049	2.049	ug/l	2.69	#VALUE!	
95 Mo	# 3	0.3896	0.3896	ug/l	4.11	#VALUE!	
107 Ag	# 3	0.05222	0.05222	ug/l	5.65	#VALUE!	
111 Cd	# 3	0.03422	0.03422	ug/l	18.39	#VALUE!	
118 Sn	# 3	2.146	2.146	ug/l	0.78	#VALUE!	
121 Sb	# 3	0.1617	0.1617	ug/l	5.41	#VALUE!	
137 Ba	# 3	45.99	45.99	ug/l	0.77	#VALUE!	
201 Hg	# 3	0.03541	0.03541	ug/l	6.07	#VALUE!	
202 Hg	# 3	0.03507	0.03507	ug/l	4.83	#VALUE!	
203 Tl	# 3	0.1723	0.1723	ug/l	1.62	#VALUE!	
205 Tl	# 3	0.1753	0.1753	ug/l	4.21	#VALUE!	
208 Pb	# 3	15.39	15.39	ug/l	0.32	#VALUE!	
232 Th	# 3	5.659	5.659	ug/l	0.65	#VALUE!	
238 U	# 3	1.29	1.29	ug/l	0.45	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	505021.34	1.34	531519.69	95.0	60 - 125	
45 Sc	# 1	297369.84	1.60	282316.44	105.3	60 - 125	
45 Sc	# 3	870119.13	1.53	802725.75	108.4	60 - 125	
74 Ge	# 1	101747.23	1.46	109028.65	93.3	60 - 125	
74 Ge	# 2	18764.21	2.41	20216.41	92.8	60 - 125	
74 Ge	# 3	194335.86	0.94	209704.94	92.7	60 - 125	
89 Y	# 3	1282559.00	0.89	1159007.90	110.7	60 - 125	
115 In	# 3	1186950.40	1.37	1277748.90	92.9	60 - 125	
159 Tb	# 3	1818560.60	1.49	1896321.40	95.9	60 - 125	
209 Bi	# 3	1038747.60	1.41	1156151.50	89.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\050SMPL.D\050SMPL.D#
Date Acquired: Mar 25 2009 05:17 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-7
Misc Info: 3050 1/10
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.6231	0.6231	ug/l	3.29	#VALUE!	
11 B	# 3	1.487	1.487	ug/l	2.18	#VALUE!	
23 Na	# 1	157.7	157.7	ug/l	0.20	#VALUE!	
24 Mg	# 1	453.2	453.2	ug/l	1.47	#VALUE!	
27 Al	# 1	9725	9725	ug/l	0.71	#VALUE!	
39 K	# 2	355.9	355.9	ug/l	0.72	#VALUE!	
40 Ca	# 1	788.5	788.5	ug/l	1.08	#VALUE!	
45 Sc	# 2	-----	---------	ug/l	--------	#VALUE!	
47 Ti	# 3	133.9	133.9	ug/l	1.34	#VALUE!	
51 V	# 2	23.74	23.74	ug/l	0.37	#VALUE!	
52 Cr	# 2	14.28	14.28	ug/l	1.10	#VALUE!	
55 Mn	# 3	85.68	85.68	ug/l	1.51	#VALUE!	
56 Fe	# 1	9332	9332	ug/l	0.27	#VALUE!	
59 Co	# 3	5.939	5.939	ug/l	1.15	#VALUE!	
60 Ni	# 2	5.061	5.061	ug/l	1.59	#VALUE!	
63 Cu	# 2	2.124	2.124	ug/l	1.00	#VALUE!	
65 Cu	# 2	2.17	2.17	ug/l	3.57	#VALUE!	
65 Cu	# 3	2.236	2.236	ug/l	3.03	#VALUE!	
66 Zn	# 3	17.06	17.06	ug/l	0.88	#VALUE!	
68 Zn	# 3	18.14	18.14	ug/l	0.29	#VALUE!	
70 Ge	# 2	-----	---------	ug/l	--------	#VALUE!	
75 As	# 2	1.542	1.542	ug/l	4.95	#VALUE!	
78 Se	# 1	0.3982	0.3982	ug/l	2.94	#VALUE!	
88 Sr	# 3	7.456	7.456	ug/l	0.41	#VALUE!	
90 Zr	# 3	1.684	1.684	ug/l	4.05	#VALUE!	
91 Zr	# 3	1.678	1.678	ug/l	2.73	#VALUE!	
95 Mo	# 3	0.3525	0.3525	ug/l	4.05	#VALUE!	
107 Ag	# 3	0.02102	0.02102	ug/l	20.13	#VALUE!	
111 Cd	# 3	0.01598	0.01598	ug/l	47.32	#VALUE!	
118 Sn	# 3	1.73	1.73	ug/l	3.94	#VALUE!	
121 Sb	# 3	0.07326	0.07326	ug/l	8.78	#VALUE!	
137 Ba	# 3	48.1	48.1	ug/l	1.09	#VALUE!	
201 Hg	# 3	0.02566	0.02566	ug/l	6.82	#VALUE!	
202 Hg	# 3	0.02648	0.02648	ug/l	7.27	#VALUE!	
203 Tl	# 3	0.157	0.157	ug/l	1.78	#VALUE!	
205 Tl	# 3	0.1602	0.1602	ug/l	1.99	#VALUE!	
208 Pb	# 3	9.48	9.48	ug/l	0.64	#VALUE!	
232 Th	# 3	3.989	3.989	ug/l	1.30	#VALUE!	
238 U	# 3	0.7531	0.7531	ug/l	0.63	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	525066.38	1.94	531519.69	98.8	60 - 125	
45 Sc	# 1	269612.53	1.04	282316.44	95.5	60 - 125	
45 Sc	# 3	839575.38	1.57	802725.75	104.6	60 - 125	
74 Ge	# 1	97698.85	1.19	109028.65	89.6	60 - 125	
74 Ge	# 2	18392.94	3.88	20216.41	91.0	60 - 125	
74 Ge	# 3	197626.48	2.40	209704.94	94.2	60 - 125	
89 Y	# 3	1394502.10	2.58	1159007.90	120.3	60 - 125	
115 In	# 3	1226444.80	2.44	1277748.90	96.0	60 - 125	
159 Tb	# 3	1873475.80	1.87	1896321.40	98.8	60 - 125	
209 Bi	# 3	1084377.40	2.21	1156151.50	93.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\051SMPL.D\051SMPL.D#
Date Acquired: Mar 25 2009 05:24 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-8
Misc Info: 3050 1/10
Vial Number: 2203
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.4972	0.4972	ug/l	6.76	#VALUE!	
11 B	# 3	1.755	1.755	ug/l	0.47	#VALUE!	
23 Na	# 1	993.1	993.1	ug/l	1.29	#VALUE!	
24 Mg	# 1	796.8	796.8	ug/l	0.79	#VALUE!	
27 Al	# 1	11450	11450	ug/l	0.22	#VALUE!	
39 K	# 2	521.8	521.8	ug/l	0.99	#VALUE!	
40 Ca	# 1	578.2	578.2	ug/l	0.29	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	247.6	247.6	ug/l	0.92	#VALUE!	
51 V	# 2	30.07	30.07	ug/l	1.33	#VALUE!	
52 Cr	# 2	16.35	16.35	ug/l	1.45	#VALUE!	
55 Mn	# 3	219.3	219.3	ug/l	0.77	#VALUE!	
56 Fe	# 1	10370	10370	ug/l	0.42	#VALUE!	
59 Co	# 3	4.117	4.117	ug/l	0.65	#VALUE!	
60 Ni	# 2	7.353	7.353	ug/l	2.45	#VALUE!	
63 Cu	# 2	11.57	11.57	ug/l	0.91	#VALUE!	
65 Cu	# 2	11.65	11.65	ug/l	0.69	#VALUE!	
65 Cu	# 3	11.72	11.72	ug/l	2.10	#VALUE!	
66 Zn	# 3	31.4	31.4	ug/l	0.72	#VALUE!	
68 Zn	# 3	32.63	32.63	ug/l	0.27	#VALUE!	
70 Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75 As	# 2	2.037	2.037	ug/l	4.87	#VALUE!	
78 Se	# 1	0.2592	0.2592	ug/l	13.43	#VALUE!	
88 Sr	# 3	8.082	8.082	ug/l	0.14	#VALUE!	
90 Zr	# 3	1.241	1.241	ug/l	1.22	#VALUE!	
91 Zr	# 3	1.224	1.224	ug/l	1.29	#VALUE!	
95 Mo	# 3	0.4291	0.4291	ug/l	3.09	#VALUE!	
107 Ag	# 3	0.02931	0.02931	ug/l	12.41	#VALUE!	
111 Cd	# 3	0.06109	0.06109	ug/l	9.75	#VALUE!	
118 Sn	# 3	2.307	2.307	ug/l	1.72	#VALUE!	
121 Sb	# 3	0.1977	0.1977	ug/l	6.02	#VALUE!	
137 Ba	# 3	57.57	57.57	ug/l	0.74	#VALUE!	
201 Hg	# 3	0.04357	0.04357	ug/l	6.54	#VALUE!	
202 Hg	# 3	0.04414	0.04414	ug/l	2.33	#VALUE!	
203 Tl	# 3	0.148	0.148	ug/l	3.01	#VALUE!	
205 Tl	# 3	0.1433	0.1433	ug/l	4.50	#VALUE!	
208 Pb	# 3	16.48	16.48	ug/l	0.31	#VALUE!	
232 Th	# 3	4.487	4.487	ug/l	0.86	#VALUE!	
238 U	# 3	1.387	1.387	ug/l	0.78	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	529521.19	2.05	531519.69	99.6	60 - 125	
45 Sc	# 1	289877.22	1.55	282316.44	102.7	60 - 125	
45 Sc	# 3	884884.69	1.35	802725.75	110.2	60 - 125	
74 Ge	# 1	100451.28	1.16	109028.65	92.1	60 - 125	
74 Ge	# 2	19053.50	2.71	20216.41	94.2	60 - 125	
74 Ge	# 3	201052.45	1.61	209704.94	95.9	60 - 125	
89 Y	# 3	1346097.60	0.96	1159007.90	116.1	60 - 125	
115 In	# 3	1229202.80	1.92	1277748.90	96.2	60 - 125	
159 Tb	# 3	1875511.40	1.32	1896321.40	98.9	60 - 125	
209 Bi	# 3	1068530.50	1.17	1156151.50	92.4	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\052SMPL.D\052SMPL.D#
Date Acquired:	Mar 25 2009 05:30 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-9
Misc Info:	3050 1/10
Vial Number:	2204
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnoxm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.9054	0.9054	ug/l	4.54	#VALUE!	
11 B	# 3	1.812	1.812	ug/l	0.66	#VALUE!	
23 Na	# 1	150	150	ug/l	0.38	#VALUE!	
24 Mg	# 1	1128	1128	ug/l	0.55	#VALUE!	
27 Al	# 1	15650	15650	ug/l	1.23	#VALUE!	
39 K	# 2	622.7	622.7	ug/l	1.51	#VALUE!	
40 Ca	# 1	1714	1714	ug/l	0.24	#VALUE!	
45 Sc	# 2	----	---------	ug/l	---------	#VALUE!	
47 Ti	# 3	262.3	262.3	ug/l	0.64	#VALUE!	
51 V	# 2	45.23	45.23	ug/l	1.98	#VALUE!	
52 Cr	# 2	27.57	27.57	ug/l	1.05	#VALUE!	
55 Mn	# 3	58.36	58.36	ug/l	1.26	#VALUE!	
56 Fe	# 1	15820	15820	ug/l	1.11	#VALUE!	
59 Co	# 3	4.663	4.663	ug/l	0.42	#VALUE!	
60 Ni	# 2	11	11	ug/l	1.67	#VALUE!	
63 Cu	# 2	30.11	30.11	ug/l	1.21	#VALUE!	
65 Cu	# 2	29.94	29.94	ug/l	1.09	#VALUE!	
65 Cu	# 3	30.38	30.38	ug/l	0.56	#VALUE!	
66 Zn	# 3	44.95	44.95	ug/l	0.68	#VALUE!	
68 Zn	# 3	46.03	46.03	ug/l	0.36	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	2.073	2.073	ug/l	3.15	#VALUE!	
78 Se	# 1	0.2983	0.2983	ug/l	6.03	#VALUE!	
88 Sr	# 3	17.12	17.12	ug/l	0.74	#VALUE!	
90 Zr	# 3	2.106	2.106	ug/l	0.83	#VALUE!	
91 Zr	# 3	2.127	2.127	ug/l	2.32	#VALUE!	
95 Mo	# 3	0.52	0.52	ug/l	5.44	#VALUE!	
107 Ag	# 3	0.1414	0.1414	ug/l	1.42	#VALUE!	
111 Cd	# 3	0.05374	0.05374	ug/l	14.32	#VALUE!	
118 Sn	# 3	2.239	2.239	ug/l	2.29	#VALUE!	
121 Sb	# 3	0.2075	0.2075	ug/l	4.76	#VALUE!	
137 Ba	# 3	65.57	65.57	ug/l	0.82	#VALUE!	
201 Hg	# 3	0.04368	0.04368	ug/l	10.01	#VALUE!	
202 Hg	# 3	0.04547	0.04547	ug/l	1.35	#VALUE!	
203 Tl	# 3	0.2241	0.2241	ug/l	1.36	#VALUE!	
205 Tl	# 3	0.2245	0.2245	ug/l	0.52	#VALUE!	
208 Pb	# 3	18.7	18.7	ug/l	0.15	#VALUE!	
232 Th	# 3	6.291	6.291	ug/l	0.97	#VALUE!	
238 U	# 3	1.721	1.721	ug/l	0.87	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	525950.69	2.03	531519.69	99.0	60 - 125	
45 Sc	# 1	311184.44	1.74	282316.44	110.2	60 - 125	
45 Sc	# 3	920847.19	0.54	802725.75	114.7	60 - 125	
74 Ge	# 1	103337.94	1.51	109028.65	94.8	60 - 125	
74 Ge	# 2	19312.03	2.79	20216.41	95.5	60 - 125	
74 Ge	# 3	200327.52	1.04	209704.94	95.5	60 - 125	
89 Y	# 3	1438191.80	1.06	1159007.90	124.1	60 - 125	
115 In	# 3	1221223.80	1.98	1277748.90	95.6	60 - 125	
159 Tb	# 3	1868698.50	1.57	1896321.40	98.5	60 - 125	
209 Bi	# 3	1061758.10	1.62	1156151.50	91.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\053SMPL.D\053SMPL.D#
Date Acquired: Mar 25 2009 05:37 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-10
Misc Info: 3050 1/10
Vial Number: 2205
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	0.5132	0.5132	ug/l	1.85	#VALUE!	
11 B	# 3	1.055	1.055	ug/l	5.11	#VALUE!	
23 Na	# 1	57.43	57.43	ug/l	1.32	#VALUE!	
24 Mg	# 1	1105	1105	ug/l	0.98	#VALUE!	
27 Al	# 1	20540	20540	ug/l	0.33	#VALUE!	
39 K	# 2	578.2	578.2	ug/l	0.72	#VALUE!	
40 Ca	# 1	1420	1420	ug/l	1.12	#VALUE!	
45 Sc	# 2	-----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	174	174	ug/l	1.05	#VALUE!	
51 V	# 2	53.4	53.4	ug/l	0.05	#VALUE!	
52 Cr	# 2	35.47	35.47	ug/l	0.85	#VALUE!	
55 Mn	# 3	39.02	39.02	ug/l	0.98	#VALUE!	
56 Fe	# 1	17390	17390	ug/l	0.85	#VALUE!	
59 Co	# 3	3.65	3.65	ug/l	0.32	#VALUE!	
60 Ni	# 2	9.464	9.464	ug/l	2.02	#VALUE!	
63 Cu	# 2	16.11	16.11	ug/l	1.30	#VALUE!	
65 Cu	# 2	16.11	16.11	ug/l	1.58	#VALUE!	
65 Cu	# 3	16.24	16.24	ug/l	0.52	#VALUE!	
66 Zn	# 3	33.62	33.62	ug/l	0.72	#VALUE!	
68 Zn	# 3	34.38	34.38	ug/l	0.65	#VALUE!	
70 Ge	# 2	-----	--------	ug/l	--------	#VALUE!	
75 As	# 2	1.329	1.329	ug/l	2.96	#VALUE!	
78 Se	# 1	0.1992	0.1992	ug/l	12.13	#VALUE!	
88 Sr	# 3	14.48	14.48	ug/l	0.68	#VALUE!	
90 Zr	# 3	1.482	1.482	ug/l	0.51	#VALUE!	
91 Zr	# 3	1.448	1.448	ug/l	4.02	#VALUE!	
95 Mo	# 3	0.2502	0.2502	ug/l	5.92	#VALUE!	
107 Ag	# 3	0.02786	0.02786	ug/l	9.03	#VALUE!	
111 Cd	# 3	0.0188	0.0188	ug/l	7.52	#VALUE!	
118 Sn	# 3	2.159	2.159	ug/l	2.94	#VALUE!	
121 Sb	# 3	0.04956	0.04956	ug/l	10.04	#VALUE!	
137 Ba	# 3	45.07	45.07	ug/l	0.53	#VALUE!	
201 Hg	# 3	0.02316	0.02316	ug/l	10.92	#VALUE!	
202 Hg	# 3	0.02314	0.02314	ug/l	7.30	#VALUE!	
203 Tl	# 3	0.2577	0.2577	ug/l	3.67	#VALUE!	
205 Tl	# 3	0.2526	0.2526	ug/l	4.45	#VALUE!	
208 Pb	# 3	19.07	19.07	ug/l	0.65	#VALUE!	
232 Th	# 3	7.776	7.776	ug/l	0.68	#VALUE!	
238 U	# 3	1.284	1.284	ug/l	1.43	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	525532.31	2.31	531519.69	98.9	60 - 125	
45 Sc	# 1	317618.69	0.87	282316.44	112.5	60 - 125	
45 Sc	# 3	941862.25	1.27	802725.75	117.3	60 - 125	
74 Ge	# 1	101334.63	1.84	109028.65	92.9	60 - 125	
74 Ge	# 2	18992.34	2.68	20216.41	93.9	60 - 125	
74 Ge	# 3	198776.81	0.95	209704.94	94.8	60 - 125	
89 Y	# 3	1249598.50	0.75	1159007.90	107.8	60 - 125	
115 In	# 3	1200111.10	1.65	1277748.90	93.9	60 - 125	
159 Tb	# 3	1830865.80	1.38	1896321.40	96.5	60 - 125	
209 Bi	# 3	1038525.10	1.09	1156151.50	89.8	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\054SMPL.D\054SMPL.D#
Date Acquired: Mar 25 2009 05:44 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-10S
Misc Info: 3050 1/10
Vial Number: 2206
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	5.271	5.271	ug/l	1.14	#VALUE!	
11 B	# 3	18.82	18.82	ug/l	2.22	#VALUE!	
23 Na	# 1	497	497	ug/l	1.16	#VALUE!	
24 Mg	# 1	1452	1452	ug/l	1.17	#VALUE!	
27 Al	# 1	21100	21100	ug/l	0.98	#VALUE!	
39 K	# 2	1006	1006	ug/l	1.30	#VALUE!	
40 Ca	# 1	1664	1664	ug/l	0.52	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	197.2	197.2	ug/l	1.47	#VALUE!	
51 V	# 2	60.06	60.06	ug/l	0.69	#VALUE!	
52 Cr	# 2	42.9	42.9	ug/l	0.21	#VALUE!	
55 Mn	# 3	89.71	89.71	ug/l	0.19	#VALUE!	
56 Fe	# 1	16780	16780	ug/l	0.20	#VALUE!	
59 Co	# 3	8.522	8.522	ug/l	0.74	#VALUE!	
60 Ni	# 2	20.13	20.13	ug/l	1.05	#VALUE!	
63 Cu	# 2	26.86	26.86	ug/l	0.59	#VALUE!	
65 Cu	# 2	26.84	26.84	ug/l	0.73	#VALUE!	
65 Cu	# 3	26.96	26.96	ug/l	0.39	#VALUE!	
66 Zn	# 3	41.82	41.82	ug/l	0.41	#VALUE!	
68 Zn	# 3	42.83	42.83	ug/l	0.56	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	10.25	10.25	ug/l	1.36	#VALUE!	
78 Se	# 1	8.911	8.911	ug/l	0.98	#VALUE!	
88 Sr	# 3	21.2	21.2	ug/l	0.81	#VALUE!	
90 Zr	# 3	24.2	24.2	ug/l	1.00	#VALUE!	
91 Zr	# 3	24.22	24.22	ug/l	1.60	#VALUE!	
95 Mo	# 3	9.438	9.438	ug/l	1.01	#VALUE!	
107 Ag	# 3	4.909	4.909	ug/l	0.83	#VALUE!	
111 Cd	# 3	4.711	4.711	ug/l	1.51	#VALUE!	
118 Sn	# 3	11.56	11.56	ug/l	0.32	#VALUE!	
121 Sb	# 3	4.047	4.047	ug/l	0.30	#VALUE!	
137 Ba	# 3	52.23	52.23	ug/l	0.37	#VALUE!	
201 Hg	# 3	0.46	0.46	ug/l	0.89	#VALUE!	
202 Hg	# 3	0.4549	0.4549	ug/l	1.20	#VALUE!	
203 Tl	# 3	3.964	3.964	ug/l	1.93	#VALUE!	
205 Tl	# 3	4.004	4.004	ug/l	1.66	#VALUE!	
208 Pb	# 3	25.84	25.84	ug/l	1.37	#VALUE!	
232 Th	# 3	15.94	15.94	ug/l	0.29	#VALUE!	
238 U	# 3	10.54	10.54	ug/l	0.21	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	512948.75	0.60	531519.69	96.5	60 - 125	
45 Sc	# 1	309262.63	2.05	282316.44	109.5	60 - 125	
45 Sc	# 3	921186.13	1.58	802725.75	114.8	60 - 125	
74 Ge	# 1	102030.24	1.81	109028.65	93.6	60 - 125	
74 Ge	# 2	18903.28	2.41	20216.41	93.5	60 - 125	
74 Ge	# 3	196676.17	0.94	209704.94	93.8	60 - 125	
89 Y	# 3	1243970.30	1.57	1159007.90	107.3	60 - 125	
115 In	# 3	1197724.50	1.17	1277748.90	93.7	60 - 125	
159 Tb	# 3	1802720.60	1.07	1896321.40	95.1	60 - 125	
209 Bi	# 3	1029131.30	0.88	1156151.50	89.0	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\055SMPL.D\055SMPL.D#
Date Acquired: Mar 25 2009 05:50 pm
Acq. Method: EPA2002.M
Operator: BB
Sample Name: 45632-10SD
Misc Info: 3050 1/10
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update: Mar 25 2009 01:12 pm
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Tune Step
1 babh2.u
2 babhe.u
3 babnorm.u

QC Elements

Element		Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	# 3	5.333	5.333	ug/l	2.56	#VALUE!	
11 B	# 3	18.89	18.89	ug/l	0.57	#VALUE!	
23 Na	# 1	484.8	484.8	ug/l	0.46	#VALUE!	
24 Mg	# 1	1335	1335	ug/l	0.47	#VALUE!	
27 Al	# 1	20260	20260	ug/l	0.28	#VALUE!	
39 K	# 2	939.6	939.6	ug/l	1.08	#VALUE!	
40 Ca	# 1	1543	1543	ug/l	0.34	#VALUE!	
45 Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47 Ti	# 3	235.3	235.3	ug/l	1.22	#VALUE!	
51 V	# 2	60.03	60.03	ug/l	0.62	#VALUE!	
52 Cr	# 2	40.01	40.01	ug/l	0.83	#VALUE!	
55 Mn	# 3	91.84	91.84	ug/l	0.55	#VALUE!	
56 Fe	# 1	18500	18500	ug/l	0.42	#VALUE!	
59 Co	# 3	8.442	8.442	ug/l	0.52	#VALUE!	
60 Ni	# 2	19.7	19.7	ug/l	1.04	#VALUE!	
63 Cu	# 2	26.78	26.78	ug/l	0.68	#VALUE!	
65 Cu	# 2	26.66	26.66	ug/l	0.76	#VALUE!	
65 Cu	# 3	27.1	27.1	ug/l	0.95	#VALUE!	
66 Zn	# 3	41.29	41.29	ug/l	0.86	#VALUE!	
68 Zn	# 3	41.91	41.91	ug/l	0.29	#VALUE!	
70 Ge	# 2	----	--------	ug/l	--------	#VALUE!	
75 As	# 2	10.14	10.14	ug/l	3.78	#VALUE!	
78 Se	# 1	8.948	8.948	ug/l	1.40	#VALUE!	
88 Sr	# 3	19.92	19.92	ug/l	0.19	#VALUE!	
90 Zr	# 3	26.68	26.68	ug/l	0.89	#VALUE!	
91 Zr	# 3	26.41	26.41	ug/l	0.39	#VALUE!	
95 Mo	# 3	9.607	9.607	ug/l	2.26	#VALUE!	
107 Ag	# 3	4.823	4.823	ug/l	1.41	#VALUE!	
111 Cd	# 3	4.77	4.77	ug/l	0.72	#VALUE!	
118 Sn	# 3	11.52	11.52	ug/l	0.33	#VALUE!	
121 Sb	# 3	4.214	4.214	ug/l	0.12	#VALUE!	
137 Ba	# 3	56.01	56.01	ug/l	0.29	#VALUE!	
201 Hg	# 3	0.5069	0.5069	ug/l	4.01	#VALUE!	
202 Hg	# 3	0.5157	0.5157	ug/l	0.51	#VALUE!	
203 Tl	# 3	3.946	3.946	ug/l	1.86	#VALUE!	
205 Tl	# 3	3.956	3.956	ug/l	0.84	#VALUE!	
208 Pb	# 3	26.5	26.5	ug/l	0.89	#VALUE!	
232 Th	# 3	16.44	16.44	ug/l	0.20	#VALUE!	
238 U	# 3	10.5	10.5	ug/l	0.48	#VALUE!	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	486380.16	1.80	531519.69	91.5	60 - 125	
45 Sc	# 1	310597.91	2.04	282316.44	110.0	60 - 125	
45 Sc	# 3	888956.75	0.79	802725.75	110.7	60 - 125	
74 Ge	# 1	102708.18	1.64	109028.65	94.2	60 - 125	
74 Ge	# 2	19113.99	1.85	20216.41	94.5	60 - 125	
74 Ge	# 3	193682.78	1.08	209704.94	92.4	60 - 125	
89 Y	# 3	1224523.10	0.86	1159007.90	105.7	60 - 125	
115 In	# 3	1164672.60	0.70	1277748.90	91.2	60 - 125	
159 Tb	# 3	1765523.80	0.73	1896321.40	93.1	60 - 125	
209 Bi	# 3	1000449.60	1.53	1156151.50	86.5	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\09C25k00.B\056SMPL.D\056SMPL.D#
Date Acquired:	Mar 25 2009 05:57 pm
Acq. Method:	EPA2002.M
Operator:	BB
Sample Name:	45632-11
Misc Info:	3050 1/10
Vial Number:	2208
Current Method:	C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File:	C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal. Update:	Mar 25 2009 01:12 pm
Sample Type:	Sample
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

Tune Step	
1	babh2.u
2	babhe.u
3	babnorm.u

QC Elements

Element			Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	# 3	0.5822	0.5822	ug/l	2.96	#VALUE!	
11	B	# 3	1.43	1.43	ug/l	3.00	#VALUE!	
23	Na	# 1	57.35	57.35	ug/l	0.09	#VALUE!	
24	Mg	# 1	848.1	848.1	ug/l	0.16	#VALUE!	
27	Al	# 1	16800	16800	ug/l	1.13	#VALUE!	
39	K	# 2	434.8	434.8	ug/l	1.43	#VALUE!	
40	Ca	# 1	1246	1246	ug/l	0.61	#VALUE!	
45	Sc	# 2	----	--------	ug/l	--------	#VALUE!	
47	Ti	# 3	171.7	171.7	ug/l	0.64	#VALUE!	
51	V	# 2	43.03	43.03	ug/l	0.75	#VALUE!	
52	Cr	# 2	28.36	28.36	ug/l	0.57	#VALUE!	
55	Mn	# 3	42.38	42.38	ug/l	0.32	#VALUE!	
56	Fe	# 1	15140	15140	ug/l	0.53	#VALUE!	
59	Co	# 3	3.679	3.679	ug/l	1.07	#VALUE!	
60	Ni	# 2	7.782	7.782	ug/l	0.17	#VALUE!	
63	Cu	# 2	28.55	28.55	ug/l	0.92	#VALUE!	
65	Cu	# 2	28.72	28.72	ug/l	0.93	#VALUE!	
65	Cu	# 3	28.91	28.91	ug/l	0.97	#VALUE!	
66	Zn	# 3	30.47	30.47	ug/l	0.09	#VALUE!	
68	Zn	# 3	31.82	31.82	ug/l	1.47	#VALUE!	
70	Ge	# 2	----	---------	ug/l	---------	#VALUE!	
75	As	# 2	1.939	1.939	ug/l	4.22	#VALUE!	
78	Se	# 1	0.2748	0.2748	ug/l	10.07	#VALUE!	
88	Sr	# 3	13	13	ug/l	0.33	#VALUE!	
90	Zr	# 3	2.492	2.492	ug/l	9.49	#VALUE!	
91	Zr	# 3	2.412	2.412	ug/l	3.86	#VALUE!	
95	Mo	# 3	0.3494	0.3494	ug/l	8.04	#VALUE!	
107	Ag	# 3	0.3785	0.3785	ug/l	3.36	#VALUE!	
111	Cd	# 3	0.03847	0.03847	ug/l	31.30	#VALUE!	
118	Sn	# 3	2.345	2.345	ug/l	2.06	#VALUE!	
121	Sb	# 3	0.2212	0.2212	ug/l	2.09	#VALUE!	
137	Ba	# 3	65.02	65.02	ug/l	1.25	#VALUE!	
201	Hg	# 3	0.1064	0.1064	ug/l	4.91	#VALUE!	
202	Hg	# 3	0.1041	0.1041	ug/l	2.33	#VALUE!	
203	Tl	# 3	0.232	0.232	ug/l	3.82	#VALUE!	
205	Tl	# 3	0.2274	0.2274	ug/l	3.62	#VALUE!	
208	Pb	# 3	22.72	22.72	ug/l	1.10	#VALUE!	
232	Th	# 3	6.42	6.42	ug/l	0.65	#VALUE!	
238	U	# 3	1.149	1.149	ug/l	0.48	#VALUE!	

ISTD Elements

Element			CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	# 3	478276.41	1.21	531519.69	90.0	60 - 125	
45	Sc	# 1	289230.06	1.20	282316.44	102.4	60 - 125	
45	Sc	# 3	871751.25	1.67	802725.75	108.6	60 - 125	
74	Ge	# 1	97412.35	1.55	109028.65	89.3	60 - 125	
74	Ge	# 2	18224.92	2.92	20216.41	90.1	60 - 125	
74	Ge	# 3	190635.17	1.83	209704.94	90.9	60 - 125	
89	Y	# 3	1238466.30	1.29	1159007.90	106.9	60 - 125	
115	In	# 3	1146060.50	1.79	1277748.90	89.7	60 - 125	
159	Tb	# 3	1732824.40	0.39	1896321.40	91.4	60 - 125	
209	Bi	# 3	990356.94	1.84	1156151.50	85.7	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes:	Pass
ISTD:	Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\057_CCV.D\057_CCV.D#
Date Acquired: Mar 25 2009 06:04 pm
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	52.52 ug/l	0.90	50.00	90 - 110	
11 B	# 3	101.8 ug/l	1.04	100.00	90 - 110	
23 Na	# 1	4831 ug/l	1.37	5000.00	90 - 110	
24 Mg	# 1	4833 ug/l	1.00	5000.00	90 - 110	
27 Al	# 1	483.6 ug/l	0.74	500.00	90 - 110	
39 K	# 2	4522 ug/l	0.64	5000.00	90 - 110	
40 Ca	# 1	4837 ug/l	0.60	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------	---	##### - #####	
47 Ti	# 3	48.81 ug/l	0.88	50.00	90 - 110	
51 V	# 2	48.46 ug/l	0.52	50.00	90 - 110	
52 Cr	# 2	48.35 ug/l	0.29	50.00	90 - 110	
55 Mn	# 3	483.1 ug/l	0.62	500.00	90 - 110	
56 Fe	# 1	4937 ug/l	0.30	5000.00	90 - 110	
59 Co	# 3	50.53 ug/l	0.98	50.00	90 - 110	
60 Ni	# 2	50.54 ug/l	0.29	50.00	90 - 110	
63 Cu	# 2	50.4 ug/l	0.70	50.00	90 - 110	
65 Cu	# 2	50.44 ug/l	1.10	50.00	90 - 110	
65 Cu	# 3	51.09 ug/l	1.02	50.00	90 - 110	
66 Zn	# 3	48.75 ug/l	0.45	50.00	90 - 110	
68 Zn	# 3	48.51 ug/l	0.99	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------	---	##### - #####	
75 As	# 2	50.05 ug/l	1.66	50.00	90 - 110	
78 Se	# 1	50.09 ug/l	1.17	50.00	90 - 110	
88 Sr	# 3	49.35 ug/l	0.53	50.00	90 - 110	
90 Zr	# 3	485.5 ug/l	0.99	500.00	90 - 110	
91 Zr	# 3	490.6 ug/l	0.45	500.00	90 - 110	
95 Mo	# 3	47.65 ug/l	0.87	50.00	90 - 110	
107 Ag	# 3	48.25 ug/l	0.48	50.00	90 - 110	
111 Cd	# 3	48.14 ug/l	1.24	50.00	90 - 110	
118 Sn	# 3	48.28 ug/l	0.80	50.00	90 - 110	
121 Sb	# 3	45.63 ug/l	0.26	50.00	90 - 110	
137 Ba	# 3	48.1 ug/l	1.04	50.00	90 - 110	
201 Hg	# 3	2.414 ug/l	1.76	2.50	90 - 110	
202 Hg	# 3	2.417 ug/l	1.65	2.50	90 - 110	
203 Tl	# 3	9.429 ug/l	0.07	10.00	90 - 110	
205 Tl	# 3	9.552 ug/l	0.50	10.00	90 - 110	
208 Pb	# 3	45.49 ug/l	0.73	50.00	90 - 110	
232 Th	# 3	48.29 ug/l	0.75	---	##### - #####	
238 U	# 3	47.95 ug/l	0.45	---	##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	403811.00	2.13	531519.69	76.0	60 - 125	
45 Sc	# 1	244734.34	1.32	282316.44	86.7	60 - 125	
45 Sc	# 3	697110.44	1.58	802725.75	86.8	60 - 125	
74 Ge	# 1	97664.70	1.27	109028.65	89.6	60 - 125	
74 Ge	# 2	17866.25	2.30	20216.41	88.4	60 - 125	
74 Ge	# 3	180886.59	1.00	209704.94	86.3	60 - 125	
89 Y	# 3	1007474.30	2.07	1159007.90	86.9	60 - 125	
115 In	# 3	1094525.50	1.45	1277748.90	85.7	60 - 125	
159 Tb	# 3	1636934.90	1.56	1896321.40	86.3	60 - 125	
209 Bi	# 3	949655.06	1.46	1156151.50	82.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\057_CCV.D\057_CCV.D#
Date Acquired: Mar 25 2009 06:04 pm
Operator: BB
Sample Name: CCV 50/5000
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element		Conc.	RSD(%)	Expected	QC Range(%)	Flag
9 Be	# 3	52.52 ug/l	0.90	50.00	90 - 110	
11 B	# 3	101.8 ug/l	1.04	100.00	90 - 110	
23 Na	# 1	4831 ug/l	1.37	5000.00	90 - 110	
24 Mg	# 1	4833 ug/l	1.00	5000.00	90 - 110	
27 Al	# 1	483.6 ug/l	0.74	500.00	90 - 110	
39 K	# 2	4522 ug/l	0.64	5000.00	90 - 110	
40 Ca	# 1	4837 ug/l	0.60	5000.00	90 - 110	
45 Sc	# 2	-------- ug/l	--------		--- ##### - #####	
47 Ti	# 3	48.81 ug/l	0.88	50.00	90 - 110	
51 V	# 2	48.46 ug/l	0.52	50.00	90 - 110	
52 Cr	# 2	48.35 ug/l	0.29	50.00	90 - 110	
55 Mn	# 3	483.1 ug/l	0.62	500.00	90 - 110	
56 Fe	# 1	4937 ug/l	0.30	5000.00	90 - 110	
59 Co	# 3	50.53 ug/l	0.98	50.00	90 - 110	
60 Ni	# 2	50.54 ug/l	0.29	50.00	90 - 110	
63 Cu	# 2	50.4 ug/l	0.70	50.00	90 - 110	
65 Cu	# 2	50.44 ug/l	1.10	50.00	90 - 110	
65 Cu	# 3	51.09 ug/l	1.02	50.00	90 - 110	
66 Zn	# 3	48.75 ug/l	0.45	50.00	90 - 110	
68 Zn	# 3	48.51 ug/l	0.99	50.00	90 - 110	
70 Ge	# 2	-------- ug/l	--------		--- ##### - #####	
75 As	# 2	50.05 ug/l	1.66	50.00	90 - 110	
78 Se	# 1	50.09 ug/l	1.17	50.00	90 - 110	
88 Sr	# 3	49.35 ug/l	0.53	50.00	90 - 110	
90 Zr	# 3	485.5 ug/l	0.99	500.00	90 - 110	
91 Zr	# 3	490.6 ug/l	0.45	500.00	90 - 110	
95 Mo	# 3	47.65 ug/l	0.87	50.00	90 - 110	
107 Ag	# 3	48.25 ug/l	0.48	50.00	90 - 110	
111 Cd	# 3	48.14 ug/l	1.24	50.00	90 - 110	
118 Sn	# 3	48.28 ug/l	0.80	50.00	90 - 110	
121 Sb	# 3	45.63 ug/l	0.26	50.00	90 - 110	
137 Ba	# 3	48.1 ug/l	1.04	50.00	90 - 110	
201 Hg	# 3	2.414 ug/l	1.76	2.50	90 - 110	
202 Hg	# 3	2.417 ug/l	1.65	2.50	90 - 110	
203 Tl	# 3	9.429 ug/l	0.07	10.00	90 - 110	
205 Tl	# 3	9.552 ug/l	0.50	10.00	90 - 110	
208 Pb	# 3	45.49 ug/l	0.73	50.00	90 - 110	
232 Th	# 3	48.29 ug/l	0.75		--- ##### - #####	
238 U	# 3	47.95 ug/l	0.45		--- ##### - #####	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	# 3	403811.00	2.13	531519.69	76.0	60 - 125	
45 Sc	# 1	244734.34	1.32	282316.44	86.7	60 - 125	
45 Sc	# 3	697110.44	1.58	802725.75	86.8	60 - 125	
74 Ge	# 1	97664.70	1.27	109028.65	89.6	60 - 125	
74 Ge	# 2	17866.25	2.30	20216.41	88.4	60 - 125	
74 Ge	# 3	180886.59	1.00	209704.94	86.3	60 - 125	
89 Y	# 3	1007474.30	2.07	1159007.90	86.9	60 - 125	
115 In	# 3	1094525.50	1.45	1277748.90	85.7	60 - 125	
159 Tb	# 3	1636934.90	1.56	1896321.40	86.3	60 - 125	
209 Bi	# 3	949655.06	1.46	1156151.50	82.1	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\09C25k00.B\058_CCB.D\058_CCB.D#
Date Acquired: Mar 25 2009 06:10 pm
Operator: BB
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\EPA2002.M
Calibration File: C:\ICPCHEM\1\CALIB\EPA2002.C
Last Cal Update: Mar 25 2009 01:12 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
9 Be	0.003223 ug/l	27.92	#VALUE!	
11 B	1.133 ug/l	12.42	#VALUE!	
23 Na	1.764 ug/l	15.69	#VALUE!	
24 Mg	6.174 ug/l	10.61	#VALUE!	
27 Al	43.47 ug/l	7.20	#VALUE!	
39 K	0.8133 ug/l	118.44	#VALUE!	
40 Ca	6.582 ug/l	8.87	#VALUE!	
45 Sc	-------- ug/l	--------	#VALUE!	
47 Ti	0.01784 ug/l	77.07	#VALUE!	
51 V	0.05328 ug/l	61.22	#VALUE!	
52 Cr	0.05397 ug/l	67.56	#VALUE!	
55 Mn	0.02428 ug/l	23.52	#VALUE!	
56 Fe	41.06 ug/l	7.83	#VALUE!	
59 Co	0.002746 ug/l	92.13	#VALUE!	
60 Ni	0.04129 ug/l	46.14	#VALUE!	
63 Cu	0.05346 ug/l	55.46	#VALUE!	
65 Cu	0.07128 ug/l	50.59	#VALUE!	
65 Cu	0.005359 ug/l	168.09	#VALUE!	
66 Zn	0.02722 ug/l	17.12	#VALUE!	
68 Zn	0.02135 ug/l	25.13	#VALUE!	
70 Ge	-------- ug/l	--------	#VALUE!	
75 As	0.05652 ug/l	32.40	#VALUE!	
78 Se	0.08395 ug/l	28.28	#VALUE!	
88 Sr	0.002231 ug/l	63.51	#VALUE!	
90 Zr	0.6629 ug/l	5.96	#VALUE!	
91 Zr	0.6656 ug/l	2.53	#VALUE!	
95 Mo	0.1195 ug/l	4.21	#VALUE!	
107 Ag	0.004137 ug/l	47.45	#VALUE!	
111 Cd	0.004622 ug/l	90.11	#VALUE!	
118 Sn	0.08519 ug/l	10.71	#VALUE!	
121 Sb	0.02444 ug/l	22.89	#VALUE!	
137 Ba	0.003108 ug/l	72.72	#VALUE!	
201 Hg	0.02998 ug/l	5.69	#VALUE!	
202 Hg	0.03021 ug/l	10.80	#VALUE!	
203 Tl	0.03989 ug/l	10.77	#VALUE!	
205 Tl	0.03587 ug/l	11.89	#VALUE!	
208 Pb	0.009059 ug/l	23.81	#VALUE!	
232 Th	0.06386 ug/l	11.56	#VALUE!	
238 U	0.006489 ug/l	34.44	#VALUE!	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	435851.16	3.35	531519.69	82.0	60 - 125	
45 Sc	255664.34	0.40	282316.44	90.6	60 - 125	
45 Sc	705994.06	2.69	802725.75	87.9	60 - 125	
74 Ge	101529.55	0.74	109028.65	93.1	60 - 125	
74 Ge	18426.66	1.76	20216.41	91.1	60 - 125	
74 Ge	183164.66	0.89	209704.94	87.3	60 - 125	
89 Y	1017344.40	1.69	1159007.90	87.8	60 - 125	
115 In	1115019.30	0.82	1277748.90	87.3	60 - 125	
159 Tb	1652342.80	0.85	1896321.40	87.1	60 - 125	
209 Bi	966034.13	1.96	1156151.50	83.6	60 - 125	

ISTD Ref File : C:\ICPCHEM\1\DATA\09C25k00.B\009CALB.D\009CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

ATTACHMENT E

SUPPLEMENTAL PHASE III INVESTIGATION 2009 DATA VALIDATION REPORTS (ON CD)

Project: Vacuum Filter Sludge Pile & Sludge Drying Beds - Hercules Aqualon, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ032
Fraction: Organic
Matrix: Aqueous
Report Date: 9/3/2009

This analytical quality assurance report is based upon a review of analytical data generated for surface water samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. Test America's, Savannah, Georgia facility performed all analyses with the exception of acrylamide, performed at the Tallahasee, Florida location.

The samples were analyzed for Hercules-Aqualon Appendix IX volatile organic compounds, Hercules-Aqualon Appendix IX semivolatile organic compounds, alcohols / glycols, and acrylamide. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

For the volatile and semivolatile fractions determined by Gas Chromatography/Mass Spectrometry, library searches were performed to "tentatively identify" chromatographic peaks whose characteristics did not match those of targeted compounds. Library searches were performed for up to ten volatile and ten semivolatile extraneous peaks.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "Laboratory Data Validation Functional Guidelines for Validating Organic Analyses", USEPA 9/94. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

9/3/2009
Date

1.0 *DATA COMPLETENESS*

The data package was missing the volatile tert-butyl alcohol reference spectra for samples VFSP-SW-1 and SDB-SW-2. The laboratory was contacted and provided the missing data.

The data package was missing the first page of the semivolatile quantitation report for lab file ID gq097.d (ICV 680-133571/8) analyzed on 3/6/2009. The laboratory was contacted and provided the missing data.

The semivolatile quantitation report for sample VFSP-SW-1 indicated an extract volume of 1030 ml, instead of 1060 ml. The laboratory was contacted and provided the revised quantitation report with corrected final concentrations.

Upon review of the spectra and retention time data for the 1-naphthalenamine positive result reported for sample SDB-SW-2, it was determined that this was a false positive and should be reported as non-detected. The laboratory was contacted and provided the revised analysis result form and quantitation report.

The matrix spike duplicate results reported for ethanol, isopropanol, and methanol on the matrix spike summary form were incorrect. The laboratory was contacted and provided the revised summary form.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

2-Methyl-1-propanol quantitation limits for the samples have been rejected, and should be considered suspect. The average relative response factor for volatile organic compound 2-methyl-1-propanol was below 0.05 for the associated initial calibration. The poor response indicates a lack of instrument sensitivity for this compound. Quantitation limits have been marked "R" to indicate that they are suspect.

4-Nitroquinoline-1-oxide quantitation limits for the samples have been rejected, and should be considered suspect. The average relative response factor for semivolatile organic compound 4-nitroquinoline-1-oxide was below 0.05 for the initial calibration. The poor response indicates a lack of instrument sensitivity for this compound. Quantitation limits have been marked "R" to indicate that they are suspect.

The pentachloroethane and benzyl chloride quantitation limits for the samples should be considered quantitative estimates. The continuing calibration precision criterion (the percent difference between initial and continuing calibration RRFs $\leq$ 20 percent) was exceeded for these volatile organic compounds. This indicates a lack of instrument stability. Nondetected results have been marked "UJ" to indicate that they are estimates.

The p-phenylene diamine quantitation limits for samples SDB-SW-1, SDB-SW-2, and VFSP-SW-1 should be considered quantitative estimates. The continuing calibration precision criterion (the percent difference between initial and continuing calibration RRFs $\leq$ 20 percent) was exceeded for this semivolatile organic compound. This indicates a lack of instrument stability. Nondetected results have been marked "UJ" to indicate that they are estimates.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

All criteria were met. No qualifiers were applied.

Field and equipment blanks were not provided for the samples in this SDG. Therefore, the sample data could not be evaluated based on this parameter.

7.0 *SURROGATE COMPOUNDS*

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

The laboratory did not spike the matrix spike sample with all of the Appendix IX compounds for the volatile and semivolatile analyses. Therefore, the sample data could not be evaluated based on this parameter.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples SDBSW-3 and BD-1 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for these duplicate samples are presented in Table 2. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty percent for volatile detected compounds (and twenty-five percent for extractable compounds) to evaluate field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

The laboratory did not spike the laboratory control sample with all of the Appendix IX compounds for the volatile and semivolatile analyses. Therefore, the sample data could not be evaluated based on this parameter.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

As required by USEPA protocol, all volatile and semivolatile TICs have been reported with "J" qualifiers to indicate that they are quantitative estimates. EDQ has reported only those TIC results that have not been determined to be laboratory or field artifacts, and where possible has grouped TIC of similar classification.

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Semivolatile Organic Compounds	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Alcohols/Glycols	Method 8015B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Acrylamide	Method 8316, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
Hercules-Aqualon Vacuum Filter Sludge Pile & Sludge Drying Beds
Surface Water Samples Collected March 2009
TestAmerica Laboratories Sample Delivery Group HAQ032

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
				VOC	SVOC	ACRYLAMIDE	ALCOHOLS	TMET	MISC
VFSP-SW-1	680-45579-1	3/17/2009	Surface Water	X	X	X	X	X	X
SDB-SW-1	680-45579-2	3/17/2009	Surface Water	X	X	X	X	X	X
SDB-SW-2	680-45579-3	3/17/2009	Surface Water	X	X	X	X	X	X
TB-1	680-45579-4	3/17/2009	Trip Blank	X					
SDBSW-3	680-45623-1	3/18/2009	Surface Water	X	X	X	X	X	X
BD-1	680-45623-2	3/18/2009	Surface Water	X	X	X	X	X	X
Trip Blank	680-45623-3	3/18/2009	Trip Blank	X					
Trip Blank	680-45623-4	3/18/2009	Trip Blank	X					

VOC Hercules-Aqualon Appendix IX Volatile Organic Compound List
SVOC Hercules-Aqualon Appendix IX Semivolatile Organic Compound List
ACRYLAMIDE Acrylamide
ALCOHOLS Alcohols and Glycols
TMET Total Metals
MISC Chloride, Sulfate, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Organic Carbon

Table 2 **Field Duplicate Sample Results for Organic Analyses**
Surface Water Duplicate Samples SDBSW-3 and BD-1

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)		RPD	ACTION
	SDBSW-3		BD-1			
Acetone	5.2	J	ND		NC	
Methyl Ethyl Ketone	1.2	J	ND		NC	
Ethylene glycol	3400	J	4100	J	19	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1936
Date Prepared: 03/24/2009 1936

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0015.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Acetone	25	U	5.0	25	
Acetonitrile	40	U	15	40	
Acrolein	20	U	18	20	
Acrylonitrile	20	U	3.8	20	
Allyl chloride	1.0	U	0.46	1.0	
Benzene	1.0	U	0.32	1.0	
Bromodichloromethane	1.0	U	0.34	1.0	
Bromoform	1.0	U	0.41	1.0	
Bromomethane	1.0	U	0.50	1.0	
Methyl Ethyl Ketone	10	U	0.60	10	
Carbon disulfide	2.0	U	0.60	2.0	
Carbon tetrachloride	1.0	U	0.27	1.0	
Chlorobenzene	1.0	U	0.34	1.0	
Chloroethane	1.0	U	1.0	1.0	
Chloroform	1.0	U	0.29	1.0	
Chloromethane	1.0	U	0.28	1.0	
Chloroprene	1.0	U	0.35	1.0	
Dibromochloromethane	1.0	U	0.30	1.0	
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0	
1,2-Dibromoethane	1.0	U	0.30	1.0	
Dibromomethane	1.0	U	0.29	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0	
Dichlorodifluoromethane	1.0	U	0.33	1.0	
1,1-Dichloroethane	1.0	U	0.32	1.0	
1,2-Dichloroethane	1.0	U	0.31	1.0	
1,1-Dichloroethene	1.0	U	0.36	1.0	
trans-1,2-Dichloroethene	1.0	U	0.30	1.0	
1,2-Dichloropropane	1.0	U	0.36	1.0	
cis-1,3-Dichloropropene	1.0	U	0.37	1.0	
trans-1,3-Dichloropropene	1.0	U	0.27	1.0	
Ethylbenzene	1.0	U	0.30	1.0	
Ethyl methacrylate	1.0	U	1.0	1.0	
2-Hexanone	10	U	0.68	10	
Iodomethane	5.0	U	1.0	5.0	
2-Methyl-1-propanol	40	~~U~~ R	19	40	ICL
Methacrylonitrile	20	U	6.6	20	
Methylene Chloride	5.0	U	1.0	5.0	
Methyl methacrylate	1.0	U	0.38	1.0	
methyl isobutyl ketone	10	U	0.60	10	
Pentachloroethane	5.0	U J	1.3	5.0	CCH
Propionitrile	20	U	9.2	20	
Styrene	1.0	U	0.36	1.0	
t-Butanol	4.9	J	2.6	5.0	
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0	

4/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1936
Date Prepared: 03/24/2009 1936

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0015.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0	
Tetrachloroethene	1.0	U	0.28	1.0	
Toluene	1.0	U	0.31	1.0	
1,1,1-Trichloroethane	1.0	U	0.39	1.0	
1,1,2-Trichloroethane	1.0	U	0.51	1.0	
Trichloroethylene	1.0	U	0.40	1.0	
Trichlorofluoromethane	1.0	U	0.29	1.0	
1,2,3-Trichloropropane	1.0	U	0.42	1.0	
Vinyl acetate	2.0	U	0.62	2.0	
Vinyl chloride	1.0	U	0.20	1.0	
Xylenes, Total	2.0	U	0.87	2.0	
Dichlorofluoromethane	1.0	U	0.32	1.0	
Benzyl chloride	1.0	U J	0.24	1.0	CCH
Diethyl ether	10	U	0.47	10	
Ethylene oxide	200	U	23	200	
n-Heptane	1.0	U	0.28	1.0	
3-Methylhexane	1.0	U	0.23	1.0	
Propylene oxide	200	U	2.4	200	

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	84	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1936
Date Prepared: 03/24/2009 1936

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0015.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier	
124-38-9	~~Carbon Dioxide~~	~~1.04~~	~~38~~	~~T B J N~~	B
	~~Unknown~~	~~1.34~~	~~12~~	~~T J~~	B
	~~Unknown~~	~~1.39~~	~~37~~	~~T J~~	B

CR 8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2005
Date Prepared: 03/24/2009 2005

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0017.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Acetone	25	U	5.0	25	
Acetonitrile	40	U	15	40	
Acrolein	20	U	18	20	
Acrylonitrile	20	U	3.8	20	
Allyl chloride	1.0	U	0.46	1.0	
Benzene	1.0	U	0.32	1.0	
Bromodichloromethane	1.0	U	0.34	1.0	
Bromoform	1.0	U	0.41	1.0	
Bromomethane	1.0	U	0.50	1.0	
Methyl Ethyl Ketone	10	U	0.60	10	
Carbon disulfide	2.0	U	0.60	2.0	
Carbon tetrachloride	1.0	U	0.27	1.0	
Chlorobenzene	1.0	U	0.34	1.0	
Chloroethane	1.0	U	1.0	1.0	
Chloroform	1.0	U	0.29	1.0	
Chloromethane	1.0	U	0.28	1.0	
Chloroprene	1.0	U	0.35	1.0	
Dibromochloromethane	1.0	U	0.30	1.0	
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0	
1,2-Dibromoethane	1.0	U	0.30	1.0	
Dibromomethane	1.0	U	0.29	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0	
Dichlorodifluoromethane	1.0	U	0.33	1.0	
1,1-Dichloroethane	1.0	U	0.32	1.0	
1,2-Dichloroethane	1.0	U	0.31	1.0	
1,1-Dichloroethene	1.0	U	0.36	1.0	
trans-1,2-Dichloroethene	1.0	U	0.30	1.0	
1,2-Dichloropropane	1.0	U	0.36	1.0	
cis-1,3-Dichloropropene	1.0	U	0.37	1.0	
trans-1,3-Dichloropropene	1.0	U	0.27	1.0	
Ethylbenzene	1.0	U	0.30	1.0	
Ethyl methacrylate	1.0	U	1.0	1.0	
2-Hexanone	10	U	0.68	10	
Iodomethane	5.0	U	1.0	5.0	
2-Methyl-1-propanol	40	~~U~~ R	19	40	ICL
Methacrylonitrile	20	U	6.6	20	
Methylene Chloride	5.0	U	1.0	5.0	
Methyl methacrylate	1.0	U	0.38	1.0	
methyl isobutyl ketone	10	U	0.60	10	
Pentachloroethane	5.0	U J	1.3	5.0	CCH
Propionitrile	20	U	9.2	20	
Styrene	1.0	U	0.36	1.0	
t-Butanol	5.0	U	2.6	5.0	
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0	

CR 8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2005
Date Prepared: 03/24/2009 2005

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0017.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0
Tetrachloroethene	1.0	U	0.28	1.0
Toluene	1.0	U	0.31	1.0
1,1,1-Trichloroethane	1.0	U	0.39	1.0
1,1,2-Trichloroethane	1.0	U	0.51	1.0
Trichloroethylene	1.0	U	0.40	1.0
Trichlorofluoromethane	1.0	U	0.29	1.0
1,2,3-Trichloropropane	1.0	U	0.42	1.0
Vinyl acetate	2.0	U	0.62	2.0
Vinyl chloride	1.0	U	0.20	1.0
Xylenes, Total	2.0	U	0.87	2.0
Dichlorofluoromethane	1.0	U	0.32	1.0
Benzyl chloride	1.0	U J	0.24	1.0 CCH
Diethyl ether	10	U	0.47	10
Ethylene oxide	200	U	23	200
n-Heptane	1.0	U	0.28	1.0
3-Methylhexane	1.0	U	0.23	1.0
Propylene oxide	200	U	2.4	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	88	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2005
Date Prepared: 03/24/2009 2005

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0017.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	~~Carbon Dioxide~~	~~1.04~~	~~44~~	~~I B J N~~ B
	Unknown	1.27	7.8	J

8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2034
Date Prepared: 03/24/2009 2034

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0019.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Acetone	13	J	5.0	25	
Acetonitrile	40	U	15	40	
Acrolein	20	U	18	20	
Acrylonitrile	20	U	3.8	20	
Allyl chloride	1.0	U	0.46	1.0	
Benzene	1.0	U	0.32	1.0	
Bromodichloromethane	1.0	U	0.34	1.0	
Bromoform	1.0	U	0.41	1.0	
Bromomethane	1.0	U	0.50	1.0	
Methyl Ethyl Ketone	1.8	J	0.60	10	
Carbon disulfide	2.0	U	0.60	2.0	
Carbon tetrachloride	1.0	U	0.27	1.0	
Chlorobenzene	1.0	U	0.34	1.0	
Chloroethane	1.0	U	1.0	1.0	
Chloroform	1.0	U	0.29	1.0	
Chloromethane	1.0	U	0.28	1.0	
Chloroprene	1.0	U	0.35	1.0	
Dibromochloromethane	1.0	U	0.30	1.0	
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0	
1,2-Dibromoethane	1.0	U	0.30	1.0	
Dibromomethane	1.0	U	0.29	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0	
Dichlorodifluoromethane	1.0	U	0.33	1.0	
1,1-Dichloroethane	1.0	U	0.32	1.0	
1,2-Dichloroethane	1.0	U	0.31	1.0	
1,1-Dichloroethene	1.0	U	0.36	1.0	
trans-1,2-Dichloroethene	1.0	U	0.30	1.0	
1,2-Dichloropropane	1.0	U	0.36	1.0	
cis-1,3-Dichloropropene	1.0	U	0.37	1.0	
trans-1,3-Dichloropropene	1.0	U	0.27	1.0	
Ethylbenzene	1.0	U	0.30	1.0	
Ethyl methacrylate	1.0	U	1.0	1.0	
2-Hexanone	10	U	0.68	10	
Iodomethane	5.0	U	1.0	5.0	
2-Methyl-1-propanol	40	U R	19	40	ICL
Methacrylonitrile	20	U	6.6	20	
Methylene Chloride	5.0	U	1.0	5.0	
Methyl methacrylate	1.0	U	0.38	1.0	
methyl isobutyl ketone	10	U	0.60	10	
Pentachloroethane	5.0	U J	1.3	5.0	CCH
Propionitrile	20	U	9.2	20	
Styrene	1.0	U	0.36	1.0	
t-Butanol	11		2.6	5.0	
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0	

3/25/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2034
Date Prepared: 03/24/2009 2034

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0019.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0	
Tetrachloroethene	1.0	U	0.28	1.0	
Toluene	0.51	J	0.31	1.0	
1,1,1-Trichloroethane	1.0	U	0.39	1.0	
1,1,2-Trichloroethane	1.0	U	0.51	1.0	
Trichloroethylene	1.0	U	0.40	1.0	
Trichlorofluoromethane	1.0	U	0.29	1.0	
1,2,3-Trichloropropane	1.0	U	0.42	1.0	
Vinyl acetate	2.0	U	0.62	2.0	
Vinyl chloride	1.0	U	0.20	1.0	
Xylenes, Total	2.0	U	0.87	2.0	
Dichlorofluoromethane	1.0	U	0.32	1.0	
Benzyl chloride	1.0	U J	0.24	1.0	CCH
Diethyl ether	10	U	0.47	10	
Ethylene oxide	200	U	23	200	
n-Heptane	1.0	U	0.28	1.0	
3-Methylhexane	1.0	U	0.23	1.0	
Propylene oxide	200	U	2.4	200	

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	96	75 - 121
Toluene-d8 (Surr)	102	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2034
Date Prepared: 03/24/2009 2034

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0019.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	34	T B J N
	Unknown	1.31	6.3	T J
	Unknown	1.40	33	T J

8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2103
Date Prepared: 03/24/2009 2103

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0021.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Acetone	5.2	J	5.0	25	
Acetonitrile	40	U	15	40	
Acrolein	20	U	18	20	
Acrylonitrile	20	U	3.8	20	
Allyl chloride	1.0	U	0.46	1.0	
Benzene	1.0	U	0.32	1.0	
Bromodichloromethane	1.0	U	0.34	1.0	
Bromoform	1.0	U	0.41	1.0	
Bromomethane	1.0	U	0.50	1.0	
Methyl Ethyl Ketone	1.2	J	0.60	10	
Carbon disulfide	2.0	U	0.60	2.0	
Carbon tetrachloride	1.0	U	0.27	1.0	
Chlorobenzene	1.0	U	0.34	1.0	
Chloroethane	1.0	U	1.0	1.0	
Chloroform	1.0	U	0.29	1.0	
Chloromethane	1.0	U	0.28	1.0	
Chloroprene	1.0	U	0.35	1.0	
Dibromochloromethane	1.0	U	0.30	1.0	
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0	
1,2-Dibromoethane	1.0	U	0.30	1.0	
Dibromomethane	1.0	U	0.29	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0	
Dichlorodifluoromethane	1.0	U	0.33	1.0	
1,1-Dichloroethane	1.0	U	0.32	1.0	
1,2-Dichloroethane	1.0	U	0.31	1.0	
1,1-Dichloroethene	1.0	U	0.36	1.0	
trans-1,2-Dichloroethene	1.0	U	0.30	1.0	
1,2-Dichloropropane	1.0	U	0.36	1.0	
cis-1,3-Dichloropropene	1.0	U	0.37	1.0	
trans-1,3-Dichloropropene	1.0	U	0.27	1.0	
Ethylbenzene	1.0	U	0.30	1.0	
Ethyl methacrylate	1.0	U	1.0	1.0	
2-Hexanone	10	U	0.68	10	
Iodomethane	5.0	U	1.0	5.0	
2-Methyl-1-propanol	40	~~U~~ R	19	40	ICL
Methacrylonitrile	20	U	6.6	20	
Methylene Chloride	5.0	U	1.0	5.0	
Methyl methacrylate	1.0	U	0.38	1.0	
methyl isobutyl ketone	10	U	0.60	10	
Pentachloroethane	5.0	U J	1.3	5.0	CCH
Propionitrile	20	U	9.2	20	
Styrene	1.0	U	0.36	1.0	
t-Butanol	5.0	U	2.6	5.0	
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2103
Date Prepared: 03/24/2009 2103

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0021.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0	
Tetrachloroethene	1.0	U	0.28	1.0	
Toluene	1.0	U	0.31	1.0	
1,1,1-Trichloroethane	1.0	U	0.39	1.0	
1,1,2-Trichloroethane	1.0	U	0.51	1.0	
Trichloroethylene	1.0	U	0.40	1.0	
Trichlorofluoromethane	1.0	U	0.29	1.0	
1,2,3-Trichloropropane	1.0	U	0.42	1.0	
Vinyl acetate	2.0	U	0.62	2.0	
Vinyl chloride	1.0	U	0.20	1.0	
Xylenes, Total	2.0	U	0.87	2.0	
Dichlorofluoromethane	1.0	U	0.32	1.0	
Benzyl chloride	1.0	U J	0.24	1.0	CCH
Diethyl ether	10	U	0.47	10	
Ethylene oxide	200	U	23	200	
n-Heptane	1.0	U	0.28	1.0	
3-Methylhexane	1.0	U	0.23	1.0	
Propylene oxide	200	U	2.4	200	

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	102	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2103
Date Prepared: 03/24/2009 2103

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0021.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	~~Carbon Dioxide~~	~~1.04~~	~~27~~	~~T B J N~~
	~~Unknown~~	~~1.35~~	~~13~~	~~T J~~
	~~Unknown~~	~~1.41~~	~~35~~	~~T J~~

B B B

CL 8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2133
Date Prepared: 03/24/2009 2133

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0023.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Acetone	25	U	5.0	25	
Acetonitrile	40	U	15	40	
Acrolein	20	U	18	20	
Acrylonitrile	20	U	3.8	20	
Allyl chloride	1.0	U	0.46	1.0	
Benzene	1.0	U	0.32	1.0	
Bromodichloromethane	1.0	U	0.34	1.0	
Bromoform	1.0	U	0.41	1.0	
Bromomethane	1.0	U	0.50	1.0	
Methyl Ethyl Ketone	10	U	0.60	10	
Carbon disulfide	2.0	U	0.60	2.0	
Carbon tetrachloride	1.0	U	0.27	1.0	
Chlorobenzene	1.0	U	0.34	1.0	
Chloroethane	1.0	U	1.0	1.0	
Chloroform	1.0	U	0.29	1.0	
Chloromethane	1.0	U	0.28	1.0	
Chloroprene	1.0	U	0.35	1.0	
Dibromochloromethane	1.0	U	0.30	1.0	
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0	
1,2-Dibromoethane	1.0	U	0.30	1.0	
Dibromomethane	1.0	U	0.29	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0	
Dichlorodifluoromethane	1.0	U	0.33	1.0	
1,1-Dichloroethane	1.0	U	0.32	1.0	
1,2-Dichloroethane	1.0	U	0.31	1.0	
1,1-Dichloroethene	1.0	U	0.36	1.0	
trans-1,2-Dichloroethene	1.0	U	0.30	1.0	
1,2-Dichloropropane	1.0	U	0.36	1.0	
cis-1,3-Dichloropropene	1.0	U	0.37	1.0	
trans-1,3-Dichloropropene	1.0	U	0.27	1.0	
Ethylbenzene	1.0	U	0.30	1.0	
Ethyl methacrylate	1.0	U	1.0	1.0	
2-Hexanone	10	U	0.68	10	
Iodomethane	5.0	U	1.0	5.0	
2-Methyl-1-propanol	40	~~U~~ R	19	40	JRL
Methacrylonitrile	20	U	6.6	20	
Methylene Chloride	5.0	U	1.0	5.0	
Methyl methacrylate	1.0	U	0.38	1.0	
methyl isobutyl ketone	10	U	0.60	10	
Pentachloroethane	5.0	U J	1.3	5.0	CCH
Propionitrile	20	U	9.2	20	
Styrene	1.0	U	0.36	1.0	
t-Butanol	5.0	U	2.6	5.0	
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0	

4/30/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2133
Date Prepared: 03/24/2009 2133

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0023.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0	
Tetrachloroethene	1.0	U	0.28	1.0	
Toluene	1.0	U	0.31	1.0	
1,1,1-Trichloroethane	1.0	U	0.39	1.0	
1,1,2-Trichloroethane	1.0	U	0.51	1.0	
Trichloroethylene	1.0	U	0.40	1.0	
Trichlorofluoromethane	1.0	U	0.29	1.0	
1,2,3-Trichloropropane	1.0	U	0.42	1.0	
Vinyl acetate	2.0	U	0.62	2.0	
Vinyl chloride	1.0	U	0.20	1.0	
Xylenes, Total	2.0	U	0.87	2.0	
Dichlorofluoromethane	1.0	U	0.32	1.0	
Benzyl chloride	1.0	U J	0.24	1.0	CCH
Diethyl ether	10	U	0.47	10	
Ethylene oxide	200	U	23	200	
n-Heptane	1.0	U	0.28	1.0	
3-Methylhexane	1.0	U	0.23	1.0	
Propylene oxide	200	U	2.4	200	

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	96	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 2133
Date Prepared: 03/24/2009 2133

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0023.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier	
124-38-9	~~Carbon Dioxide~~	~~1.04~~	~~28~~	~~T B J N~~	B
	~~Unknown~~	~~1.31~~	~~6.4~~	~~T J~~	B
	~~Unknown~~	~~1.39~~	~~32~~	~~T J~~	B

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Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **TB-1**

Lab Sample ID: 680-45579-4TB
Client Matrix: Water

Date Sampled: 03/17/2009 0000
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1639
Date Prepared: 03/24/2009 1639

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0003.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	15	40
Acrolein	20	U	18	20
Acrylonitrile	20	U	3.8	20
Allyl chloride	1.0	U	0.46	1.0
Benzene	1.0	U	0.32	1.0
Bromodichloromethane	1.0	U	0.34	1.0
Bromoform	1.0	U	0.41	1.0
Bromomethane	1.0	U	0.50	1.0
Methyl Ethyl Ketone	10	U	0.60	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.34	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.29	1.0
Chloromethane	1.0	U	0.28	1.0
Chloroprene	1.0	U	0.35	1.0
Dibromochloromethane	1.0	U	0.30	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0
1,2-Dibromoethane	1.0	U	0.30	1.0
Dibromomethane	1.0	U	0.29	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0
Dichlorodifluoromethane	1.0	U	0.33	1.0
1,1-Dichloroethane	1.0	U	0.32	1.0
1,2-Dichloroethane	1.0	U	0.31	1.0
1,1-Dichloroethene	1.0	U	0.36	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
1,2-Dichloropropane	1.0	U	0.36	1.0
cis-1,3-Dichloropropene	1.0	U	0.37	1.0
trans-1,3-Dichloropropene	1.0	U	0.27	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethyl methacrylate	1.0	U	1.0	1.0
2-Hexanone	10	U	0.68	10
Iodomethane	5.0	U	1.0	5.0
2-Methyl-1-propanol	40	~~U~~ R	19	40
Methacrylonitrile	20	U	6.6	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.38	1.0
methyl isobutyl ketone	10	U	0.60	10
Pentachloroethane	5.0	U J	1.3	5.0
Propionitrile	20	U	9.2	20
Styrene	1.0	U	0.36	1.0
t-Butanol	5.0	U	2.6	5.0
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0

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CR 8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **TB-1**

Lab Sample ID: 680-45579-4TB
Client Matrix: Water

Date Sampled: 03/17/2009 0000
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1639
Date Prepared: 03/24/2009 1639

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0003.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0	
Tetrachloroethene	1.0	U	0.28	1.0	
Toluene	1.0	U	0.31	1.0	
1,1,1-Trichloroethane	1.0	U	0.39	1.0	
1,1,2-Trichloroethane	1.0	U	0.51	1.0	
Trichloroethylene	1.0	U	0.40	1.0	
Trichlorofluoromethane	1.0	U	0.29	1.0	
1,2,3-Trichloropropane	1.0	U	0.42	1.0	
Vinyl acetate	2.0	U	0.62	2.0	
Vinyl chloride	1.0	U	0.20	1.0	
Xylenes, Total	2.0	U	0.87	2.0	
Dichlorofluoromethane	1.0	U	0.32	1.0	
Benzyl chloride	1.0	U J	0.24	1.0	cc H
Diethyl ether	10	U	0.47	10	
Ethylene oxide	200	U	23	200	
n-Heptane	1.0	U	0.28	1.0	
3-Methylhexane	1.0	U	0.23	1.0	
Propylene oxide	200	U	2.4	200	

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	101	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **TB-1**

Lab Sample ID: 680-45579-4TB
Client Matrix: Water

Date Sampled: 03/17/2009 0000
Date Received: 03/18/2009 0858

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1639
Date Prepared: 03/24/2009 1639

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0003.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	20	~~TBJN~~ J
	Unknown	1.34	11	~~TJ~~ J
	Unknown	1.41	37	IJ J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-3TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1837
Date Prepared: 03/24/2009 1837

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0011.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Acetone	25	U	5.0	25	
Acetonitrile	40	U	15	40	
Acrolein	20	U	18	20	
Acrylonitrile	20	U	3.8	20	
Allyl chloride	1.0	U	0.46	1.0	
Benzene	1.0	U	0.32	1.0	
Bromodichloromethane	1.0	U	0.34	1.0	
Bromoform	1.0	U	0.41	1.0	
Bromomethane	1.0	U	0.50	1.0	
Methyl Ethyl Ketone	10	U	0.60	10	
Carbon disulfide	2.0	U	0.60	2.0	
Carbon tetrachloride	1.0	U	0.27	1.0	
Chlorobenzene	1.0	U	0.34	1.0	
Chloroethane	1.0	U	1.0	1.0	
Chloroform	1.0	U	0.29	1.0	
Chloromethane	1.0	U	0.28	1.0	
Chloroprene	1.0	U	0.35	1.0	
Dibromochloromethane	1.0	U	0.30	1.0	
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0	
1,2-Dibromoethane	1.0	U	0.30	1.0	
Dibromomethane	1.0	U	0.29	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0	
Dichlorodifluoromethane	1.0	U	0.33	1.0	
1,1-Dichloroethane	1.0	U	0.32	1.0	
1,2-Dichloroethane	1.0	U	0.31	1.0	
1,1-Dichloroethene	1.0	U	0.36	1.0	
trans-1,2-Dichloroethene	1.0	U	0.30	1.0	
1,2-Dichloropropane	1.0	U	0.36	1.0	
cis-1,3-Dichloropropene	1.0	U	0.37	1.0	
trans-1,3-Dichloropropene	1.0	U	0.27	1.0	
Ethylbenzene	1.0	U	0.30	1.0	
Ethyl methacrylate	1.0	U	1.0	1.0	
2-Hexanone	10	U	0.68	10	
Iodomethane	5.0	U	1.0	5.0	
2-Methyl-1-propanol	40	~~U~~ R	19	40	ICL
Methacrylonitrile	20	U	6.6	20	
Methylene Chloride	5.0	U	1.0	5.0	
Methyl methacrylate	1.0	U	0.38	1.0	
methyl isobutyl ketone	10	U	0.60	10	
Pentachloroethane	5.0	U J	1.3	5.0	CCH
Propionitrile	20	U	9.2	20	
Styrene	1.0	U	0.36	1.0	
t-Butanol	5.0	U	2.6	5.0	
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0	

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Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-3TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1837
Date Prepared: 03/24/2009 1837

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0011.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0	
Tetrachloroethene	1.0	U	0.28	1.0	
Toluene	1.0	U	0.31	1.0	
1,1,1-Trichloroethane	1.0	U	0.39	1.0	
1,1,2-Trichloroethane	1.0	U	0.51	1.0	
Trichloroethylene	1.0	U	0.40	1.0	
Trichlorofluoromethane	1.0	U	0.29	1.0	
1,2,3-Trichloropropane	1.0	U	0.42	1.0	
Vinyl acetate	2.0	U	0.62	2.0	
Vinyl chloride	1.0	U	0.20	1.0	
Xylenes, Total	2.0	U	0.87	2.0	
Dichlorofluoromethane	1.0	U	0.32	1.0	
Benzyl chloride	1.0	U J	0.24	1.0	CCH
Diethyl ether	10	U	0.47	10	
Ethylene oxide	200	U	23	200	
n-Heptane	1.0	U	0.28	1.0	
3-Methylhexane	1.0	U	0.23	1.0	
Propylene oxide	200	U	2.4	200	

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-3TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1837
Date Prepared: 03/24/2009 1837

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0011.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.05	19	~~TBJN~~ J
	Unknown	1.31	7.2	~~TJ~~ J
	Unknown	1.40	47	~~TJ~~ J

CR 8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-4TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1906
Date Prepared: 03/24/2009 1906

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0013.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Acetone	25	U	5.0	25	
Acetonitrile	40	U	15	40	
Acrolein	20	U	18	20	
Acrylonitrile	20	U	3.8	20	
Allyl chloride	1.0	U	0.46	1.0	
Benzene	1.0	U	0.32	1.0	
Bromodichloromethane	1.0	U	0.34	1.0	
Bromoform	1.0	U	0.41	1.0	
Bromomethane	1.0	U	0.50	1.0	
Methyl Ethyl Ketone	10	U	0.60	10	
Carbon disulfide	2.0	U	0.60	2.0	
Carbon tetrachloride	1.0	U	0.27	1.0	
Chlorobenzene	1.0	U	0.34	1.0	
Chloroethane	1.0	U	1.0	1.0	
Chloroform	1.0	U	0.29	1.0	
Chloromethane	1.0	U	0.28	1.0	
Chloroprene	1.0	U	0.35	1.0	
Dibromochloromethane	1.0	U	0.30	1.0	
1,2-Dibromo-3-Chloropropane	1.0	U	0.48	1.0	
1,2-Dibromoethane	1.0	U	0.30	1.0	
Dibromomethane	1.0	U	0.29	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	0.83	2.0	
Dichlorodifluoromethane	1.0	U	0.33	1.0	
1,1-Dichloroethane	1.0	U	0.32	1.0	
1,2-Dichloroethane	1.0	U	0.31	1.0	
1,1-Dichloroethene	1.0	U	0.36	1.0	
trans-1,2-Dichloroethene	1.0	U	0.30	1.0	
1,2-Dichloropropane	1.0	U	0.36	1.0	
cis-1,3-Dichloropropene	1.0	U	0.37	1.0	
trans-1,3-Dichloropropene	1.0	U	0.27	1.0	
Ethylbenzene	1.0	U	0.30	1.0	
Ethyl methacrylate	1.0	U	1.0	1.0	
2-Hexanone	10	U	0.68	10	
Iodomethane	5.0	U	1.0	5.0	
2-Methyl-1-propanol	40	~~U~~ R	19	40	ICL
Methacrylonitrile	20	U	6.6	20	
Methylene Chloride	5.0	U	1.0	5.0	
Methyl methacrylate	1.0	U	0.38	1.0	
methyl isobutyl ketone	10	U	0.60	10	
Pentachloroethane	5.0	U J	1.3	5.0	CCH
Propionitrile	20	U	9.2	20	
Styrene	1.0	U	0.36	1.0	
t-Butanol	5.0	U	2.6	5.0	
1,1,1,2-Tetrachloroethane	1.0	U	0.29	1.0	

CR 8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-4TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1906
Date Prepared: 03/24/2009 1906

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0013.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
1,1,2,2-Tetrachloroethane	1.0	U	0.26	1.0	
Tetrachloroethene	1.0	U	0.28	1.0	
Toluene	1.0	U	0.31	1.0	
1,1,1-Trichloroethane	1.0	U	0.39	1.0	
1,1,2-Trichloroethane	1.0	U	0.51	1.0	
Trichloroethylene	1.0	U	0.40	1.0	
Trichlorofluoromethane	1.0	U	0.29	1.0	
1,2,3-Trichloropropane	1.0	U	0.42	1.0	
Vinyl acetate	2.0	U	0.62	2.0	
Vinyl chloride	1.0	U	0.20	1.0	
Xylenes, Total	2.0	U	0.87	2.0	
Dichlorofluoromethane	1.0	U	0.32	1.0	
Benzyl chloride	1.0	U J	0.24	1.0	CCH
Diethyl ether	10	U	0.47	10	
Ethylene oxide	200	U	23	200	
n-Heptane	1.0	U	0.28	1.0	
3-Methylhexane	1.0	U	0.23	1.0	
Propylene oxide	200	U	2.4	200	

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-45623-4TB
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2009 1906
Date Prepared: 03/24/2009 1906

Analysis Batch: 680-133478

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0013.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
124-38-9	Carbon Dioxide	1.04	18	~~TBJN~~ J
	Unknown	1.40	37	~~IJ~~ J

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 2028
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133525
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5706.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	0.58	J	0.47	9.4
Benzo[g,h,i]perylene	1.5	J	0.63	9.4
Benzo[a]pyrene	0.96	J	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	2.6	J	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 2028
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133525
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5706.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	1.7	J	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	U R	4.7	19
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

ICL

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 2028
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133525
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5706.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
N-Nitrosopiperidine	9.4	U	0.94	9.4	
N-Nitrosopyrrolidine	9.4	U	0.94	9.4	
5-Nitro-o-toluidine	9.4	U	0.94	9.4	
Pentachlorobenzene	9.4	U	0.54	9.4	
Pentachloronitrobenzene	9.4	U	0.94	9.4	
Pentachlorophenol	47	U	4.7	47	
Phenacetin	9.4	U	0.47	9.4	
Phenanthrene	9.4	U	0.47	9.4	
Phenol	9.4	U	0.47	9.4	
p-Phenylene diamine	1900	U J	9.4	1900	CCH
2-Picoline	9.4	U	0.63	9.4	
Pronamide	9.4	U	0.94	9.4	
Pyrene	9.4	U	0.47	9.4	
Pyridine	47	U	9.4	47	
Safrole, Total	9.4	U	0.47	9.4	
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4	
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4	
o-Toluidine	9.4	U	0.47	9.4	
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4	
2,4,5-Trichlorophenol	9.4	U	0.75	9.4	
2,4,6-Trichlorophenol	9.4	U	0.47	9.4	
o,o',o"-Triethylphosphorothioate	9.4	U	0.75	9.4	
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4	

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	75	50 - 113
2-Fluorophenol	77	36 - 110
Nitrobenzene-d5	81	45 - 112
Phenol-d5	74	38 - 116
Terphenyl-d14	42	10 - 121
2,4,6-Tribromophenol	81	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 2028
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133525
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5706.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	~~Unknown Aldol Condensate~~	~~3.68~~	~~30~~	~~T A J~~
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.41	12	T J N

8/20/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1527
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5698.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	9.4	U	0.47	9.4
Benzo[g,h,i]perylene	1.2	J	0.63	9.4
Benzo[a]pyrene	0.66	J	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	1.3	J	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1527
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5698.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	1.3	J	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	~~U~~ R	4.7	19 RL
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1527
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5698.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
N-Nitrosopiperidine	9.4	U	0.94	9.4	
N-Nitrosopyrrolidine	9.4	U	0.94	9.4	
5-Nitro-o-toluidine	9.4	U	0.94	9.4	
Pentachlorobenzene	9.4	U	0.54	9.4	
Pentachloronitrobenzene	9.4	U	0.94	9.4	
Pentachlorophenol	47	U	4.7	47	
Phenacetin	9.4	U	0.47	9.4	
Phenanthrene	9.4	U	0.47	9.4	
Phenol	9.4	U	0.47	9.4	
p-Phenylene diamine	1900	U J	9.4	1900	CCH
2-Picoline	9.4	U	0.63	9.4	
Pronamide	9.4	U	0.94	9.4	
Pyrene	9.4	U	0.47	9.4	
Pyridine	47	U	9.4	47	
Safrole, Total	9.4	U	0.47	9.4	
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4	
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4	
o-Toluidine	9.4	U	0.47	9.4	
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4	
2,4,5-Trichlorophenol	9.4	U	0.75	9.4	
2,4,6-Trichlorophenol	9.4	U	0.47	9.4	
o,o',o"-Triethylphosphorothioate	9.4	U	0.75	9.4	
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4	

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	74	50 - 113
2-Fluorophenol	71	36 - 110
Nitrobenzene-d5	77	45 - 112
Phenol-d5	71	38 - 116
Terphenyl-d14	43	10 - 121
2,4,6-Tribromophenol	85	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1527
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5698.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
~~---~~	~~Unknown Aldol Condensate~~	~~3.77~~	~~30~~	~~T A J~~
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.50	10	T J N
	Unknown	4.65	5.5	T J

Resubmittal Rec 8/28/09 CR

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 | Lab Sample ID: 680-45579-3

Matrix: Water | Lab File ID: g5699.d

Analysis Method: 8270C | Date Collected: 03/17/2009 14:51

Extract. Method: 3520C | Date Extracted: 03/19/2009 12:35

Sample wt/vol: 1030(mL) | Date Analyzed: 03/23/2009 15:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1.0(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 133430 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9.7	U	9.7	0.49
208-96-8	Acenaphthylene	9.7	U	9.7	0.49
98-86-2	Acetophenone	9.7	U	9.7	0.49
53-96-3	2-Acetylaminofluorene	9.7	U	9.7	0.54
92-67-1	4-Aminobiphenyl	9.7	U	9.7	0.49
62-53-3	Aniline	19	U	19	8.3
120-12-7	Anthracene	9.7	U	9.7	0.49
140-57-8	Aramite, Total	9.7	U	9.7	0.51
56-55-3	Benzo[a]anthracene	9.7	U	9.7	0.49
205-99-2	Benzo[b]fluoranthene	9.7	U	9.7	0.65
207-08-9	Benzo[k]fluoranthene	9.7	U	9.7	0.49
191-24-2	Benzo[g,h,i]perylene	0.71	J	9.7	0.65
50-32-8	Benzo[a]pyrene	9.7	U	9.7	0.49
100-51-6	Benzyl alcohol	9.7	U	9.7	0.78
101-55-3	4-Bromophenyl phenyl ether	9.7	U	9.7	0.49
85-68-7	Butyl benzyl phthalate	9.7	U	9.7	0.72
88-85-7	2-sec-Butyl-4,6-dinitrophenol	9.7	U	9.7	4.9
106-47-8	4-Chloroaniline	19	U	19	4.7
111-91-1	Bis(2-chloroethoxy)methane	9.7	U	9.7	0.49
111-44-4	Bis(2-chloroethyl)ether	9.7	U	9.7	0.57
108-60-1	2,2'-oxybis[1-chloropropane]	9.7	U	9.7	0.49
117-81-7	Bis(2-ethylhexyl) phthalate	9.7	U	9.7	0.91
59-50-7	4-Chloro-3-methylphenol	9.7	U	9.7	0.50
91-58-7	2-Chloronaphthalene	9.7	U	9.7	0.49
95-57-8	2-Chlorophenol	9.7	U	9.7	0.97
7005-72-3	4-Chlorophenyl phenyl ether	9.7	U	9.7	0.97
218-01-9	Chrysene	9.7	U	9.7	0.49
2303-16-4	Diallate	9.7	U	9.7	0.34
53-70-3	Dibenz(a,h)anthracene	0.64	J	9.7	0.49
132-64-9	Dibenzofuran	9.7	U	9.7	0.49
84-74-2	Di-n-butyl phthalate	9.7	U	9.7	0.49
95-50-1	1,2-Dichlorobenzene	9.7	U	9.7	0.49
541-73-1	1,3-Dichlorobenzene	9.7	U	9.7	0.49
106-46-7	1,4-Dichlorobenzene	9.7	U	9.7	0.49

CR 9/1/09

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 | Lab Sample ID: 680-45579-3

Matrix: Water | Lab File ID: g5699.d

Analysis Method: 8270C | Date Collected: 03/17/2009 14:51

Extract. Method: 3520C | Date Extracted: 03/19/2009 12:35

Sample wt/vol: 1030(mL) | Date Analyzed: 03/23/2009 15:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1.0(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 133430 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-94-1	3,3'-Dichlorobenzidine	19	U	19	3.1
120-83-2	2,4-Dichlorophenol	9.7	U	9.7	0.97
87-65-0	2,6-Dichlorophenol	9.7	U	9.7	0.49
84-66-2	Diethyl phthalate	9.7	U	9.7	0.49
60-51-5	Dimethoate	9.7	U	9.7	0.61
60-11-7	p-Dimethylamino-azobenzene	9.7	U	9.7	0.58
57-97-6	7,12-Dimethylbenz(a)anthracene	9.7	U	9.7	0.97
119-93-7	3,3'-Dimethylbenzidine	19	U	19	0.49
122-09-8	alpha,alpha-Dimethyl phenethylamine	1900	U	1900	9.7
105-67-9	2,4-Dimethylphenol	9.7	U	9.7	1.1
131-11-3	Dimethyl phthalate	9.7	U	9.7	4.9
99-65-0	m-Dinitrobenzene	9.7	U	9.7	0.55
534-52-1	4,6-Dinitro-2-methylphenol	49	U	49	4.9
51-28-5	2,4-Dinitrophenol	49	U	49	9.7
121-14-2	2,4-Dinitrotoluene	9.7	U	9.7	0.49
606-20-2	2,6-Dinitrotoluene	9.7	U	9.7	0.49
117-84-0	Di-n-octyl phthalate	9.7	U	9.7	0.74
123-91-1	1,4-Dioxane	9.7	U	9.7	2.5
62-50-0	Ethyl methanesulfonate	9.7	U	9.7	0.54
206-44-0	Fluoranthene	9.7	U	9.7	0.49
86-73-7	Fluorene	9.7	U	9.7	0.49
118-74-1	Hexachlorobenzene	9.7	U	9.7	0.49
87-68-3	Hexachlorobutadiene	9.7	U	9.7	4.9
77-47-4	Hexachlorocyclopentadiene	9.7	U	9.7	4.9
67-72-1	Hexachloroethane	9.7	U	9.7	0.49
70-30-4	Hexachlorophene	4900	U	4900	39
1888-71-7	Hexachloropropene	9.7	U	9.7	0.49
193-39-5	Indeno[1,2,3-cd]pyrene	9.7	U	9.7	0.83
78-59-1	Isophorone	9.7	U	9.7	0.49
120-58-1	Isosafrole	9.7	U	9.7	0.30
91-80-5	Methapyrilene	1900	U	1900	4.9
56-49-5	3-Methylcholanthrene	9.7	U	9.7	0.49
66-27-3	Methyl methanesulfonate	9.7	U	9.7	0.49
91-57-6	2-Methylnaphthalene	9.7	U	9.7	0.49

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 | Lab Sample ID: 680-45579-3

Matrix: Water | Lab File ID: g5699.d

Analysis Method: 8270C | Date Collected: 03/17/2009 14:51

Extract. Method: 3520C | Date Extracted: 03/19/2009 12:35

Sample wt/vol: 1030(mL) | Date Analyzed: 03/23/2009 15:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1.0(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 133430 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-48-7	2-Methylphenol	9.7	U	9.7	0.62	
15831-10-4	3 & 4 Methylphenol	9.7	U	9.7	0.97	
91-20-3	Naphthalene	9.7	U	9.7	0.49	
134-32-7	1-Naphthalenamine	9.7	U	9.7	0.49	
91-59-8	2-Naphthalenamine	9.7	U	9.7	0.97	
130-15-4	1,4-Naphthoquinone	9.7	U	9.7	0.97	
88-74-4	2-Nitroaniline	49	U	49	4.9	
99-09-2	3-Nitroaniline	49	U	49	2.7	
100-01-6	4-Nitroaniline	49	U	49	1.9	
98-95-3	Nitrobenzene	9.7	U	9.7	0.49	
88-75-5	2-Nitrophenol	9.7	U	9.7	4.9	
100-02-7	4-Nitrophenol	49	U	49	9.7	
56-57-5	4-Nitroquinoline-1-oxide	19	~~U~~ R	19	4.9	IRL
924-16-3	N-Nitrosodi-n-butylamine	9.7	U	9.7	0.97	
55-18-5	N-Nitrosodiethylamine	9.7	U	9.7	0.49	
62-75-9	N-Nitrosodimethylamine	9.7	U	9.7	1.2	
86-30-6	N-Nitrosodiphenylamine	9.7	U	9.7	0.71	
621-64-7	N-Nitrosodi-n-propylamine	9.7	U	9.7	0.49	
10595-95-6	N-Nitrosomethylethylamine	9.7	U	9.7	4.9	
59-89-2	N-Nitrosomorpholine	9.7	U	9.7	0.57	
100-75-4	N-Nitrosopiperidine	9.7	U	9.7	0.97	
930-55-2	N-Nitrosopyrrolidine	9.7	U	9.7	0.97	
99-55-8	5-Nitro-o-toluidine	9.7	U	9.7	0.97	
608-93-5	Pentachlorobenzene	9.7	U	9.7	0.55	
82-68-8	Pentachloronitrobenzene	9.7	U	9.7	0.97	
87-86-5	Pentachlorophenol	49	U	49	4.9	
62-44-2	Phenacetin	9.7	U	9.7	0.49	
85-01-8	Phenanthrene	9.7	U	9.7	0.49	
108-95-2	Phenol	9.7	U	9.7	0.49	
106-50-3	p-Phenylene diamine	1900	~~U~~ J	1900	9.7	CCH
109-06-8	2-Picoline	9.7	U	9.7	0.65	
23950-58-5	Pronamide	9.7	U	9.7	0.97	
129-00-0	Pyrene	9.7	U	9.7	0.49	
110-86-1	Pyridine	49	U	49	9.7	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Savannah	Job No.:	680-45579-1
SDG No.:	HAQ032		
Client Sample ID:	SDB-SW-2	Lab Sample ID:	680-45579-3
Matrix:	Water	Lab File ID:	g5699.d
Analysis Method:	8270C	Date Collected:	03/17/2009 14:51
Extract. Method:	3520C	Date Extracted:	03/19/2009 12:35
Sample wt/vol:	1030(mL)	Date Analyzed:	03/23/2009 15:49
Con. Extract Vol.:	1(mL)	Dilution Factor:	1
Injection Volume:	1.0(uL)	Level: (low/med)	Low
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	133430	Units:	ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-59-7	Safrole, Total	9.7	U	9.7	0.49
95-94-3	1,2,4,5-Tetrachlorobenzene	9.7	U	9.7	0.50
58-90-2	2,3,4,6-Tetrachlorophenol	9.7	U	9.7	0.49
95-53-4	o-Toluidine	9.7	U	9.7	0.49
120-82-1	1,2,4-Trichlorobenzene	9.7	U	9.7	0.69
95-95-4	2,4,5-Trichlorophenol	9.7	U	9.7	0.78
88-06-2	2,4,6-Trichlorophenol	9.7	U	9.7	0.49
126-68-1	o,o',o''-Triethylphosphorothioate	9.7	U	9.7	0.77
99-35-4	1,3,5-Trinitrobenzene	9.7	U	9.7	4.9

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	70	50-113	
367-12-4	2-Fluorophenol	68	36-110	
4165-60-0	Nitrobenzene-d5	72	45-112	
4165-62-2	Phenol-d5	70	38-116	
1718-51-0	Terphenyl-d14	45	10-121	
118-79-6	2,4,6-Tribromophenol	87	40-139	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1549
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5699.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Tentatively Identified Compounds **Number TIC's Found:** 5

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	~~Unknown Aldol Condensate~~	~~3.77~~	~~28~~	~~T A J~~
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.50	8.9	J N
	Unknown	4.65	4.6	J
	Unknown	4.78	9.7	J
2091-29-4	unk ~~9-Hexadecenoic acid~~	10.15	4.2	J N

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1549
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5699.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.7	U	0.49	9.7
Acenaphthylene	9.7	U	0.49	9.7
Acetophenone	9.7	U	0.49	9.7
2-Acetylaminofluorene	9.7	U	0.54	9.7
4-Aminobiphenyl	9.7	U	0.49	9.7
Aniline	19	U	8.3	19
Anthracene	9.7	U	0.49	9.7
Aramite, Total	9.7	U	0.51	9.7
Benzo[a]anthracene	9.7	U	0.49	9.7
Benzo[b]fluoranthene	9.7	U	0.65	9.7
Benzo[k]fluoranthene	9.7	U	0.49	9.7
Benzo[g,h,i]perylene	0.71	J	0.65	9.7
Benzo[a]pyrene	9.7	U	0.49	9.7
Benzyl alcohol	9.7	U	0.78	9.7
4-Bromophenyl phenyl ether	9.7	U	0.49	9.7
Butyl benzyl phthalate	9.7	U	0.72	9.7
2-sec-Butyl-4,6-dinitrophenol	9.7	U	4.9	9.7
4-Chloroaniline	19	U	4.7	19
Bis(2-chloroethoxy)methane	9.7	U	0.49	9.7
Bis(2-chloroethyl)ether	9.7	U	0.57	9.7
2,2'-oxybis[1-chloropropane]	9.7	U	0.49	9.7
Bis(2-ethylhexyl) phthalate	9.7	U	0.91	9.7
4-Chloro-3-methylphenol	9.7	U	0.50	9.7
2-Chloronaphthalene	9.7	U	0.49	9.7
2-Chlorophenol	9.7	U	0.97	9.7
4-Chlorophenyl phenyl ether	9.7	U	0.97	9.7
Chrysene	9.7	U	0.49	9.7
Diallate	9.7	U	0.34	9.7
Dibenz(a,h)anthracene	0.64	J	0.49	9.7
Dibenzofuran	9.7	U	0.49	9.7
Di-n-butyl phthalate	9.7	U	0.49	9.7
1,2-Dichlorobenzene	9.7	U	0.49	9.7
1,3-Dichlorobenzene	9.7	U	0.49	9.7
1,4-Dichlorobenzene	9.7	U	0.49	9.7
3,3'-Dichlorobenzidine	19	U	3.1	19
2,4-Dichlorophenol	9.7	U	0.97	9.7
2,6-Dichlorophenol	9.7	U	0.49	9.7
Diethyl phthalate	9.7	U	0.49	9.7
Dimethoate	9.7	U	0.61	9.7
p-Dimethylamino azobenzene	9.7	U	0.58	9.7
7,12-Dimethylbenz(a)anthracene	9.7	U	0.97	9.7
3,3'-Dimethylbenzidine	19	U	0.49	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.7	1900
2,4-Dimethylphenol	9.7	U	1.1	9.7

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1549
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5699.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.7	U	4.9	9.7
m-Dinitrobenzene	9.7	U	0.55	9.7
4,6-Dinitro-2-methylphenol	49	U	4.9	49
2,4-Dinitrophenol	49	U	9.7	49
2,4-Dinitrotoluene	9.7	U	0.49	9.7
2,6-Dinitrotoluene	9.7	U	0.49	9.7
Di-n-octyl phthalate	9.7	U	0.74	9.7
1,4-Dioxane	9.7	U	2.5	9.7
Ethyl methanesulfonate	9.7	U	0.54	9.7
Fluoranthene	9.7	U	0.49	9.7
Fluorene	9.7	U	0.49	9.7
Hexachlorobenzene	9.7	U	0.49	9.7
Hexachlorobutadiene	9.7	U	4.9	9.7
Hexachlorocyclopentadiene	9.7	U	4.9	9.7
Hexachloroethane	9.7	U	0.49	9.7
Hexachlorophene	4900	U	39	4900
Hexachloropropene	9.7	U	0.49	9.7
Indeno[1,2,3-cd]pyrene	9.7	U	0.83	9.7
Isophorone	9.7	U	0.49	9.7
Isosafrole	9.7	U	0.30	9.7
Methapyrilene	1900	U	4.9	1900
3-Methylcholanthrene	9.7	U	0.49	9.7
Methyl methanesulfonate	9.7	U	0.49	9.7
2-Methylnaphthalene	9.7	U	0.49	9.7
2-Methylphenol	9.7	U	0.62	9.7
3 & 4 Methylphenol	9.7	U	0.97	9.7
Naphthalene	9.7	U	0.49	9.7
1-Naphthalenamine	7.4	J	0.49	9.7
2-Naphthalenamine	9.7	U	0.97	9.7
1,4-Naphthoquinone	9.7	U	0.97	9.7
2-Nitroaniline	49	U	4.9	49
3-Nitroaniline	49	U	2.7	49
4-Nitroaniline	49	U	1.9	49
Nitrobenzene	9.7	U	0.49	9.7
2-Nitrophenol	9.7	U	4.9	9.7
4-Nitrophenol	49	U	9.7	49
4-Nitroquinoline-1-oxide	19	U R	4.9	19
N-Nitrosodi-n-butylamine	9.7	U	0.97	9.7
N-Nitrosodiethylamine	9.7	U	0.49	9.7
N-Nitrosodimethylamine	9.7	U	1.2	9.7
N-Nitrosodiphenylamine	9.7	U	0.71	9.7
N-Nitrosodi-n-propylamine	9.7	U	0.49	9.7
N-Nitrosomethylethylamine	9.7	U	4.9	9.7
N-Nitrosomorpholine	9.7	U	0.57	9.7

NP

IRL

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1549
Date Prepared: 03/19/2009 1235

Analysis Batch: 680-133430
Prep Batch: 680-133018

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5699.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
N-Nitrosopiperidine	9.7	U	0.97	9.7	
N-Nitrosopyrrolidine	9.7	U	0.97	9.7	
5-Nitro-o-toluidine	9.7	U	0.97	9.7	
Pentachlorobenzene	9.7	U	0.55	9.7	
Pentachloronitrobenzene	9.7	U	0.97	9.7	
Pentachlorophenol	49	U	4.9	49	
Phenacetin	9.7	U	0.49	9.7	
Phenanthrene	9.7	U	0.49	9.7	
Phenol	9.7	U	0.49	9.7	
p-Phenylene diamine	1900	U J	9.7	1900	CCH
2-Picoline	9.7	U	0.65	9.7	
Pronamide	9.7	U	0.97	9.7	
Pyrene	9.7	U	0.49	9.7	
Pyridine	49	U	9.7	49	
Safrole, Total	9.7	U	0.49	9.7	
1,2,4,5-Tetrachlorobenzene	9.7	U	0.50	9.7	
2,3,4,6-Tetrachlorophenol	9.7	U	0.49	9.7	
o-Toluidine	9.7	U	0.49	9.7	
1,2,4-Trichlorobenzene	9.7	U	0.69	9.7	
2,4,5-Trichlorophenol	9.7	U	0.78	9.7	
2,4,6-Trichlorophenol	9.7	U	0.49	9.7	
o,o',o"-Triethylphosphorothioate	9.7	U	0.77	9.7	
1,3,5-Trinitrobenzene	9.7	U	4.9	9.7	

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	70	50 - 113
2-Fluorophenol	68	36 - 110
Nitrobenzene-d5	72	45 - 112
Phenol-d5	70	38 - 116
Terphenyl-d14	45	10 - 121
2,4,6-Tribromophenol	87	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2143
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5766.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	9.4	U	0.47	9.4
Benzo[g,h,i]perylene	9.4	U	0.63	9.4
Benzo[a]pyrene	9.4	U	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	9.4	U	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

8/25/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2143
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5766.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	U R	4.7	19
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

IRL

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2143
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5766.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosopiperidine	9.4	U	0.94	9.4
N-Nitrosopyrrolidine	9.4	U	0.94	9.4
5-Nitro-o-toluidine	9.4	U	0.94	9.4
Pentachlorobenzene	9.4	U	0.54	9.4
Pentachloronitrobenzene	9.4	U	0.94	9.4
Pentachlorophenol	47	U	4.7	47
Phenacetin	9.4	U	0.47	9.4
Phenanthrene	9.4	U	0.47	9.4
Phenol	9.4	U	0.47	9.4
p-Phenylene diamine	1900	U	9.4	1900
2-Picoline	9.4	U	0.63	9.4
Pronamide	9.4	U	0.94	9.4
Pyrene	9.4	U	0.47	9.4
Pyridine	47	U	9.4	47
Safrole, Total	9.4	U	0.47	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4
o-Toluidine	9.4	U	0.47	9.4
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4
2,4,5-Trichlorophenol	9.4	U	0.75	9.4
2,4,6-Trichlorophenol	9.4	U	0.47	9.4
o,o',o''-Triethylphosphorothioate	9.4	U	0.75	9.4
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	68	50 - 113
2-Fluorophenol	58	36 - 110
Nitrobenzene-d5	59	45 - 112
Phenol-d5	56	38 - 116
Terphenyl-d14	36	10 - 121
2,4,6-Tribromophenol	82	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133680	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-133386	Lab File ID:	g5766.d	
Dilution:	1.0		Initial Weight/Volume:	1060	mL
Date Analyzed:	03/26/2009 2143		Final Weight/Volume:	1	mL
Date Prepared:	03/24/2009 1130		Injection Volume:	1.0	uL

Tentatively Identified Compounds **Number TIC's Found:** 6

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	~~Unknown Aldol Condensate~~	~~3.62~~	~~20~~	~~T A J~~
	~~Unknown~~	~~4.50~~	~~4.1~~	~~T J~~ B
	Unknown	4.63	5.8	T J
	Unknown Organic Acid	9.99	4.9	T J
	Unknown	10.97	5.0	T J
791-28-6	~~Phosphine oxide, triphenyl-~~	~~11.35~~	~~6.9~~	~~T J N~~ B

8/13/18

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2205
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5767.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	9.4	U	0.47	9.4
Acenaphthylene	9.4	U	0.47	9.4
Acetophenone	9.4	U	0.47	9.4
2-Acetylaminofluorene	9.4	U	0.53	9.4
4-Aminobiphenyl	9.4	U	0.47	9.4
Aniline	19	U	8.1	19
Anthracene	9.4	U	0.47	9.4
Aramite, Total	9.4	U	0.50	9.4
Benzo[a]anthracene	9.4	U	0.47	9.4
Benzo[b]fluoranthene	9.4	U	0.63	9.4
Benzo[k]fluoranthene	9.4	U	0.47	9.4
Benzo[g,h,i]perylene	9.4	U	0.63	9.4
Benzo[a]pyrene	9.4	U	0.47	9.4
Benzyl alcohol	9.4	U	0.75	9.4
4-Bromophenyl phenyl ether	9.4	U	0.47	9.4
Butyl benzyl phthalate	9.4	U	0.70	9.4
2-sec-Butyl-4,6-dinitrophenol	9.4	U	4.7	9.4
4-Chloroaniline	19	U	4.5	19
Bis(2-chloroethoxy)methane	9.4	U	0.47	9.4
Bis(2-chloroethyl)ether	9.4	U	0.56	9.4
2,2'-oxybis[1-chloropropane]	9.4	U	0.47	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	0.89	9.4
4-Chloro-3-methylphenol	9.4	U	0.49	9.4
2-Chloronaphthalene	9.4	U	0.47	9.4
2-Chlorophenol	9.4	U	0.94	9.4
4-Chlorophenyl phenyl ether	9.4	U	0.94	9.4
Chrysene	9.4	U	0.47	9.4
Diallate	9.4	U	0.33	9.4
Dibenz(a,h)anthracene	9.4	U	0.47	9.4
Dibenzofuran	9.4	U	0.47	9.4
Di-n-butyl phthalate	9.4	U	0.47	9.4
1,2-Dichlorobenzene	9.4	U	0.47	9.4
1,3-Dichlorobenzene	9.4	U	0.47	9.4
1,4-Dichlorobenzene	9.4	U	0.47	9.4
3,3'-Dichlorobenzidine	19	U	3.0	19
2,4-Dichlorophenol	9.4	U	0.94	9.4
2,6-Dichlorophenol	9.4	U	0.47	9.4
Diethyl phthalate	9.4	U	0.47	9.4
Dimethoate	9.4	U	0.59	9.4
p-Dimethylamino azobenzene	9.4	U	0.57	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	0.94	9.4
3,3'-Dimethylbenzidine	19	U	0.47	19
alpha,alpha-Dimethyl phenethylamine	1900	U	9.4	1900
2,4-Dimethylphenol	9.4	U	1.0	9.4

4/24/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2205
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5767.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dimethyl phthalate	9.4	U	4.7	9.4
m-Dinitrobenzene	9.4	U	0.54	9.4
4,6-Dinitro-2-methylphenol	47	U	4.7	47
2,4-Dinitrophenol	47	U	9.4	47
2,4-Dinitrotoluene	9.4	U	0.47	9.4
2,6-Dinitrotoluene	9.4	U	0.47	9.4
Di-n-octyl phthalate	9.4	U	0.72	9.4
1,4-Dioxane	9.4	U	2.5	9.4
Ethyl methanesulfonate	9.4	U	0.53	9.4
Fluoranthene	9.4	U	0.47	9.4
Fluorene	9.4	U	0.47	9.4
Hexachlorobenzene	9.4	U	0.47	9.4
Hexachlorobutadiene	9.4	U	4.7	9.4
Hexachlorocyclopentadiene	9.4	U	4.7	9.4
Hexachloroethane	9.4	U	0.47	9.4
Hexachlorophene	4700	U	38	4700
Hexachloropropene	9.4	U	0.47	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	0.81	9.4
Isophorone	9.4	U	0.47	9.4
Isosafrole	9.4	U	0.29	9.4
Methapyrilene	1900	U	4.7	1900
3-Methylcholanthrene	9.4	U	0.47	9.4
Methyl methanesulfonate	9.4	U	0.47	9.4
2-Methylnaphthalene	9.4	U	0.47	9.4
2-Methylphenol	9.4	U	0.60	9.4
3 & 4 Methylphenol	9.4	U	0.94	9.4
Naphthalene	9.4	U	0.47	9.4
1-Naphthalenamine	9.4	U	0.47	9.4
2-Naphthalenamine	9.4	U	0.94	9.4
1,4-Naphthoquinone	9.4	U	0.94	9.4
2-Nitroaniline	47	U	4.7	47
3-Nitroaniline	47	U	2.6	47
4-Nitroaniline	47	U	1.9	47
Nitrobenzene	9.4	U	0.47	9.4
2-Nitrophenol	9.4	U	4.7	9.4
4-Nitrophenol	47	U	9.4	47
4-Nitroquinoline-1-oxide	19	U R	4.7	19 IRL
N-Nitrosodi-n-butylamine	9.4	U	0.94	9.4
N-Nitrosodiethylamine	9.4	U	0.47	9.4
N-Nitrosodimethylamine	9.4	U	1.1	9.4
N-Nitrosodiphenylamine	9.4	U	0.69	9.4
N-Nitrosodi-n-propylamine	9.4	U	0.47	9.4
N-Nitrosomethylethylamine	9.4	U	4.7	9.4
N-Nitrosomorpholine	9.4	U	0.56	9.4

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 2205
Date Prepared: 03/24/2009 1130

Analysis Batch: 680-133680
Prep Batch: 680-133386

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5767.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosopiperidine	9.4	U	0.94	9.4
N-Nitrosopyrrolidine	9.4	U	0.94	9.4
5-Nitro-o-toluidine	9.4	U	0.94	9.4
Pentachlorobenzene	9.4	U	0.54	9.4
Pentachloronitrobenzene	9.4	U	0.94	9.4
Pentachlorophenol	47	U	4.7	47
Phenacetin	9.4	U	0.47	9.4
Phenanthrene	9.4	U	0.47	9.4
Phenol	9.4	U	0.47	9.4
p-Phenylene diamine	1900	U	9.4	1900
2-Picoline	9.4	U	0.63	9.4
Pronamide	9.4	U	0.94	9.4
Pyrene	9.4	U	0.47	9.4
Pyridine	47	U	9.4	47
Safrole, Total	9.4	U	0.47	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	0.48	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	0.47	9.4
o-Toluidine	9.4	U	0.47	9.4
1,2,4-Trichlorobenzene	9.4	U	0.67	9.4
2,4,5-Trichlorophenol	9.4	U	0.75	9.4
2,4,6-Trichlorophenol	9.4	U	0.47	9.4
o,o',o''-Triethylphosphorothioate	9.4	U	0.75	9.4
1,3,5-Trinitrobenzene	9.4	U	4.7	9.4

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	76	50 - 113
2-Fluorophenol	70	36 - 110
Nitrobenzene-d5	69	45 - 112
Phenol-d5	68	38 - 116
Terphenyl-d14	37	10 - 121
2,4,6-Tribromophenol	83	40 - 139

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-133680	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-133386	Lab File ID:	g5767.d	
Dilution:	1.0		Initial Weight/Volume:	1060	mL
Date Analyzed:	03/26/2009 2205		Final Weight/Volume:	1	mL
Date Prepared:	03/24/2009 1130		Injection Volume:	1.0	uL

Tentatively Identified Compounds **Number TIC's Found:** 4

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	~~Unknown~~	~~4.50~~	~~5.2~~	~~T J~~
791-28-6	~~Phosphine oxide, triphenyl-~~	~~11.35~~	~~12~~	~~T J N~~
	Unknown	12.87	4.6	~~T~~ J
	Unknown	14.75	8.0	~~T~~ J

B B

cf 8/24/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: VFSP-SW-1 | Lab Sample ID: 680-45579-1

Matrix: Water | Lab File ID: G032704.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: 1000(uL) | Date Analyzed: 03/27/2009 15:06 ✓

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133849 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-46-6	Diethylene glycol	✓ 1000	J	5000	500
57-55-6	Propylene glycol	5000	U	5000	970
111-76-2	Ethylene glycol monobutyl ether	5000	U	5000	500
2807-30-9	Ethylene glycol monopropyl ether	5000	U	5000	1000

CK 8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: VFSP-SW-1 | Lab Sample ID: 680-45579-1

Matrix: Water | Lab File ID: V032707.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: | Date Analyzed: 03/27/2009 15:11 ✓

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133767 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
64-17-5	Ethanol	1000	U	1000	380
67-63-0	Isopropanol	1000	U	1000	320
67-56-1	Methanol	1000	U	1000	320

✓

8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: VFSP-SW-1 | Lab Sample ID: 680-45579-1

Matrix: Water | Lab File ID: G032714.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: 1000(uL) | Date Analyzed: 03/27/2009 21:36 ✓

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
25265-71-8	Dipropylene glycol	5000	U	5000	2600

8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: VFSP-SW-1 | Lab Sample ID: 680-45579-1

Matrix: Water | Lab File ID: G033006.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: 1000(uL) | Date Analyzed: 03/30/2009 15:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133900 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-21-1	Ethylene glycol	1000	J	5000	760

CR 8/6/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: VFSP-SW-1 | Lab Sample ID: 680-45579-1

Matrix: Water | Lab File ID: V033003.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: | Date Analyzed: 03/30/2009 17:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133922 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-18-6	Allyl alcohol	1000	U	1000	330

8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-1 Lab Sample ID: 680-45579-2

Matrix: Water Lab File ID: G032705.D

Analysis Method: 8015B Date Received: 03/18/2009 08:58

Sample wt/vol: 1000(uL) Date Analyzed: 03/27/2009 15:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analy. Batch No.: 133849 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-21-1	Ethylene glycol	3500	J	5000	760
111-46-6	Diethylene glycol	5000	U	5000	500
57-55-6	Propylene glycol	5000	U	5000	970
111-76-2	Ethylene glycol monobutyl ether	5000	U	5000	500
2807-30-9	Ethylene glycol monopropyl ether	5000	U	5000	1000

8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-1 | Lab Sample ID: 680-45579-2

Matrix: Water | Lab File ID: V032708.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: | Date Analyzed: 03/27/2009 15:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133767 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
64-17-5	Ethanol	1000	U	1000	380
67-63-0	Isopropanol	1000	U	1000	320
67-56-1	Methanol	1000	U	1000	320

CR 8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-1 | Lab Sample ID: 680-45579-2

Matrix: Water | Lab File ID: G032715.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: 1000(uL) | Date Analyzed: 03/27/2009 21:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
25265-71-8	Dipropylene glycol	5000	U	5000	2600

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FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-1 Lab Sample ID: 680-45579-2

Matrix: Water Lab File ID: V033004.D

Analysis Method: 8015B Date Received: 03/18/2009 08:58

Sample wt/vol: Date Analyzed: 03/30/2009 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analy. Batch No.: 133922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-18-6	Allyl alcohol	1000	U	1000	330

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FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 Lab Sample ID: 680-45579-3

Matrix: Water Lab File ID: G032706.D

Analysis Method: 8015B Date Received: 03/18/2009 08:58

Sample wt/vol: 1000(uL) Date Analyzed: 03/27/2009 15:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analy. Batch No.: 133849 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-21-1	Ethylene glycol	5100		5000	760
111-46-6	Diethylene glycol	5000	U	5000	500
57-55-6	Propylene glycol	5000	U	5000	970
111-76-2	Ethylene glycol monobutyl ether	5000	U	5000	500
2807-30-9	Ethylene glycol monopropyl ether	5000	U	5000	1000

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FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 | Lab Sample ID: 680-45579-3

Matrix: Water | Lab File ID: V032709.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: | Date Analyzed: 03/27/2009 15:54

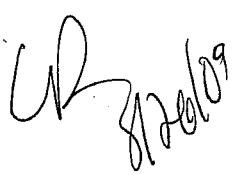
Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133767 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
64-17-5	Ethanol	1000	U	1000	380
67-63-0	Isopropanol	1000	U	1000	320
67-56-1	Methanol	1000	U	1000	320



FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 | Lab Sample ID: 680-45579-3

Matrix: Water | Lab File ID: G032716.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: 1000(uL) | Date Analyzed: 03/27/2009 22:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
25265-71-8	Dipropylene glycol	5000	U	5000	2600

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FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 | Lab Sample ID: 680-45579-3

Matrix: Water | Lab File ID: V033005.D

Analysis Method: 8015B | Date Received: 03/18/2009 08:58

Sample wt/vol: | Date Analyzed: 03/30/2009 17:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133922 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-18-6	Allyl alcohol	1000	U	1000	330

CR 8/26/09

FORM I 8015B

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDBSW-3 Lab Sample ID: 680-45623-1

Matrix: Water Lab File ID: G032707.D

Analysis Method: 8015B Date Received: 03/19/2009 08:52

Sample wt/vol: 1000(uL) Date Analyzed: 03/27/2009 16:15 ✓

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analy. Batch No.: 133849 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-21-1	Ethylene glycol	3400	J	5000	760
111-46-6	Diethylene glycol	5000	U	5000	500
57-55-6	Propylene glycol	5000	U	5000	970
111-76-2	Ethylene glycol monobutyl ether	5000	U	5000	500
2807-30-9	Ethylene glycol monopropyl ether	5000	U	5000	1000

CR 8/24/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDBSW-3 | Lab Sample ID: 680-45623-1

Matrix: Water | Lab File ID: V032710.D

Analysis Method: 8015B | Date Received: 03/19/2009 08:52

Sample wt/vol: | Date Analyzed: 03/27/2009 16:15

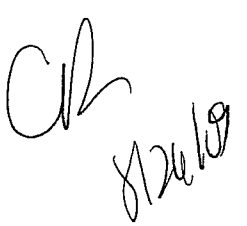
Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133767 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
64-17-5	Ethanol	1000	U	1000	380
67-63-0	Isopropanol	1000	U	1000	320
67-56-1	Methanol	1000	U	1000	320



FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDBSW-3 | Lab Sample ID: 680-45623-1

Matrix: Water | Lab File ID: G032717.D

Analysis Method: 8015B | Date Received: 03/19/2009 08:52

Sample wt/vol: 1000(uL) | Date Analyzed: 03/27/2009 22:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
25265-71-8	Dipropylene glycol	5000	U	5000	2600

8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDBSW-3 | Lab Sample ID: 680-45623-1

Matrix: Water | Lab File ID: V033101.D

Analysis Method: 8015B | Date Received: 03/19/2009 08:52

Sample wt/vol: | Date Analyzed: 03/31/2009 15:53 ✓

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 134041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-18-6	Allyl alcohol	1000	U	1000	330

4/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: BD-1 Lab Sample ID: 680-45623-2

Matrix: Water Lab File ID: G032708.D

Analysis Method: 8015B Date Received: 03/19/2009 08:52

Sample wt/vol: 1000(uL) Date Analyzed: 03/27/2009 16:38 ✓

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analy. Batch No.: 133849 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-21-1	Ethylene glycol	✓ 4100	J	5000	760
111-46-6	Diethylene glycol	5000	U	5000	500
57-55-6	Propylene glycol	5000	U	5000	970
111-76-2	Ethylene glycol monobutyl ether	5000	U	5000	500
2807-30-9	Ethylene glycol monopropyl ether	5000	U	5000	1000

CR 8/20/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: BD-1 Lab Sample ID: 680-45623-2

Matrix: Water Lab File ID: V032711.D

Analysis Method: 8015B Date Received: 03/19/2009 08:52

Sample wt/vol: Date Analyzed: 03/27/2009 16:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analy. Batch No.: 133767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
64-17-5	Ethanol	1000	U	1000	380
67-63-0	Isopropanol	1000	U	1000	320
67-56-1	Methanol	1000	U	1000	320

8/26/18

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: BD-1 | Lab Sample ID: 680-45623-2

Matrix: Water | Lab File ID: G032718.D

Analysis Method: 8015B | Date Received: 03/19/2009 08:52

Sample wt/vol: 1000(uL) | Date Analyzed: 03/27/2009 23:07 ✓

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 133851 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
25265-71-8	Dipropylene glycol	5000	U	5000	2600

8/26/09

FORM I
HYDROCARBONS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: BD-1 | Lab Sample ID: 680-45623-2

Matrix: Water | Lab File ID: V033102.D

Analysis Method: 8015B | Date Received: 03/19/2009 08:52

Sample wt/vol: | Date Analyzed: 03/31/2009 16:14 ✓

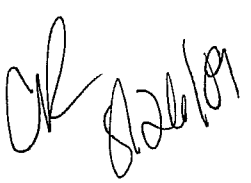
Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RESTEK RTX 624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analy. Batch No.: 134041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-18-6	Allyl alcohol	1000	U	1000	330



FORM I
HPLC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: VFSP-SW-1 | Lab Sample ID: 680-45579-1

Matrix: Water (Dissolved) | Lab File ID: 2C24L14.d

Analysis Method: 8316 | Date Collected: 03/17/2009 13:00

Extract. Method: Filtration | Date Extracted: 03/24/2009 08:00

Sample wt/vol: 10(mL) | Date Analyzed: 03/24/2009 17:49

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 50(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 55057 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-06-1	Acrylamide	100	U	100	8.0

8/29/09

FORM I
HPLC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-1 Lab Sample ID: 680-45579-2

Matrix: Water (Dissolved) Lab File ID: 2C24L15.d

Analysis Method: 8316 Date Collected: 03/17/2009 14:30

Extract. Method: Filtration Date Extracted: 03/24/2009 08:00

Sample wt/vol: 10(mL) Date Analyzed: 03/24/2009 17:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 55057 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-06-1	Acrylamide	100	U	100	8.0

8/31/09

FORM I
HPLC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDB-SW-2 Lab Sample ID: 680-45579-3

Matrix: Water (Dissolved) Lab File ID: 2C24L16.d

Analysis Method: 8316 Date Collected: 03/17/2009 14:51

Extract. Method: Filtration Date Extracted: 03/24/2009 08:00

Sample wt/vol: 10(mL) Date Analyzed: 03/24/2009 18:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

Analysis Batch No.: 55057 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-06-1	Acrylamide	100	U	100	8.0

CF 8/29/09

FORM I
HPLC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: SDBSW-3 | Lab Sample ID: 680-45623-1

Matrix: Water (Dissolved) | Lab File ID: 2C24L10.d

Analysis Method: 8316 | Date Collected: 03/18/2009 12:15

Extract. Method: Filtration | Date Extracted: 03/24/2009 08:00

Sample wt/vol: 10(mL) | Date Analyzed: 03/24/2009 17:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 50(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 55057 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-06-1	Acrylamide	100	U	100	8.0

CR 8/19/09

FORM I
HPLC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-45579-1

SDG No.: HAQ032

Client Sample ID: BD-1 | Lab Sample ID: 680-45623-2

Matrix: Water (Dissolved) | Lab File ID: 2C24L13.d

Analysis Method: 8316 | Date Collected: 03/18/2009 00:00

Extract. Method: Filtration | Date Extracted: 03/24/2009 08:00

Sample wt/vol: 10(mL) | Date Analyzed: 03/24/2009 17:40

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 50(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 55057 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-06-1	Acrylamide	100	U	100	8.0

CR 4/29/09

Project: Vacuum Filter Sludge Pile & Sludge Drying Beds - Hercules Aqualon, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ032
Fraction: Inorganic
Matrix: Aqueous
Report Date: 9/3/2009

This analytical quality assurance report is based upon a review of analytical data generated for surface water samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997, and "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 10/2004. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

9/3/2009
Date

1.0 *DATA COMPLETENESS*

The data package was missing the metals raw data for the matrix spike duplictate and sample SDB-SW01 analyses on 3/20/2009 at 11:17 and 11:24. The laboratory was contacted and provided the missing data.

The CRQL standards analyzed on 3/23/2009 at 13:18 and 13:25 were not reported on the CRQL standard summary form. The laboratory was contacted and provided the revised forms.

The data package was missing the Kjeldahl nitrogen raw data for the 4/29/2009 preparation and 4/30/2009 analyses of samples SDBSW-3 and BD-1. The laboratory was contacted and provided the missing data.

Samples SDBSW-3 and BD-1 were analyzed outside of holding times for Kjeldahl nitrogen; however, this was not noted in the case narrative. The laboratory was contacted and provided the revised narrative.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

All chain of custody documentation was complete.

3.0 *HOLDING TIMES*

Positive results reported for Kjeldahl nitrogen for samples SDBSW-3 and BD-1 should be considered biased low quantitative estimates, and may be higher than reported. The laboratory analyzed these samples fifteen days outside of the twenty-eight-day holding time specified by the method. Because the samples were analyzed outside of the holding time biological or chemical degradation may have occurred. Positive results have been marked with "L" qualifiers to indicate that they are biased low quantitative estimates.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

Positive results reported for beryllium, cadmium, chromium, cobalt, nickel, vanadium, and nitrite in the following samples should be considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. Region III protocol requires positive results for inorganic contaminants, that are less than or equal to five times the blank contamination level, to be considered qualitatively invalid. Placing "B" qualifiers next to the quantitative results for these analytes in the samples has indicated this.

Analyte	Affected Samples
Beryllium	VFSP-SW-1, SDBSW-3, BD-1
Cadmium	SDBSW-3
Chromium	VFSP-SW-1, SDB-SW-1, SDB-SW-2
Cobalt	SDB-SW-2
Nickel	SDB-SW-1, SDB-SW-2
Vanadium	VFSP-SW-1, SDB-SW-1, SDB-SW-2
Nitrite	VFSP-SW-1

Field and equipment blanks were not provided for the samples in this SDG. Therefore, the sample data could not be evaluated based on this parameter.

7.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

Positive results reported for manganese for sample SDBSW-3 and BD-1 and for Kjeldahl nitrogen for samples VFSP-SW-1, SDB-SW-1, and SDB-

SW-2 should be considered biased low quantitative estimates and may be higher than reported. The associated matrix spike recovery was below the acceptance limit for these analytes. The low recovery indicates the presence of interferences for manganese and Kjeldahl nitrogen for samples of similar matrix. Positive results have been marked "L" to indicate that they are biased low quantitative estimates.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples SDBSW-3 and BD-1 were submitted to the laboratory to evaluate sampling and analytical precision for those inorganic analytes determined to be present. Results for these duplicate samples are presented in Table 3. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criterion of 25 percent for values greater than five times the CRDL (or $\pm$ the CRDL for results less than five times the CRDL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses performed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all inorganic analytes which were qualitatively identified at concentrations between their respective quantitation limits (QLs) and their method detection limits, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Analysis	Reference
Appendix IX Metals	Method 6020, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Total Organic Carbon	Method 9060, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Chloride	Method 325.2"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrate-Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Total Kjeldahl Nitrogen	Method 351.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Sulfate	Method 375.4, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 1 Samples For Data Validation Review
Hercules-Aqualon Vacuum Filter Sludge Pile & Sludge Drying Beds
Surface Water Samples Collected March 2009
TestAmerica Laboratories Sample Delivery Group HAQ032

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
				VOC	SVOC	ACRYLAMIDE	ALCOHOLS	TMET	MISC
VFSP-SW-1	680-45579-1	3/17/2009	Surface Water	X	X	X	X	X	X
SDB-SW-1	680-45579-2	3/17/2009	Surface Water	X	X	X	X	X	X
SDB-SW-2	680-45579-3	3/17/2009	Surface Water	X	X	X	X	X	X
TB-1	680-45579-4	3/17/2009	Trip Blank	X					
SDBSW-3	680-45623-1	3/18/2009	Surface Water	X	X	X	X	X	X
BD-1	680-45623-2	3/18/2009	Surface Water	X	X	X	X	X	X
Trip Blank	680-45623-3	3/18/2009	Trip Blank	X					
Trip Blank	680-45623-4	3/18/2009	Trip Blank	X					

VOC Hercules-Aqualon Appendix IX Volatile Organic Compound List
SVOC Hercules-Aqualon Appendix IX Semivolatile Organic Compound List
ACRYLAMIDE Acrylamide
ALCOHOLS Alcohols and Glycols
TMET Total Metals
MISC Chloride, Sulfate, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Organic Carbon

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS		ASSOC. SAMPLES
PB	Chromium	1	µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2
	Nickel	0.51	µg/L	
	Vanadium	1.1	µg/L	
CCB55	Silver	0.019	µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2
	Beryllium	0.016	µg/L	
	Cobalt	0.011	µg/L	
CCB79	Silver	0.032	µg/L	SDBSW-3, BD-1
	Beryllium	0.029	µg/L	
	Cadmium	0.034	µg/L	
	Cobalt	0.024	µg/L	
	Iron	4.7	µg/L	
	Magnesium	4.3	µg/L	
	Manganese	0.28	µg/L	
CCB3	Nitrite	10.6	µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2
CCB3	Nitrite	10	µg/L	SDBSW-3, BD-1
PB	TKN	57	µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2

Table 3 **Field Duplicate Sample Results for Inorganic Analyses**
Surface Water Duplicate Samples SDBSW-3 and BD-1

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)		RPD	ACTION
	SDBSW-3		BD-1			
Aluminum	1100		950		15	
Arsenic	0.75	J	0.6	J	22	
Barium	42		23		58	
Cadmium	0.15	B	ND		NC	
Calcium	4500		3600		22	
Chromium	2.5	J	1.9	J	27	
Cobalt	2.2		0.85		89	
Copper	6.7		4.1	J	48	
Iron	2100		1100		63	
Lead	2		0.59	J	109	
Magnesium	2100		1900		10	
Manganese	350	L	120	L	98	
Nickel	4.1		3.1		28	
Potassium	3800		4000		5	
Sodium	4000		3900		3	
Vanadium	5.3		3	J	55	
Zinc	58		34		52	
Chloride	3300		3700		11	
Nitrogen, Kjeldahl	1200	L	1100	L	9	
Nitrate as N	71		140		65	
Sulfate	14000		14000		0	
Total Organic Carbon	21000		19000		10	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1051
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	830		15	50	
Antimony	0.52	J	0.36	2.5	
Arsenic	1.2	J	0.28	2.5	
Barium	41		2.0	5.0	
Beryllium	0.10	~~J~~ B	0.065	0.50	BL
Cadmium	0.50	U	0.12	0.50	
Calcium	3300		50	250	
Chromium	4.2	(B)	0.60	5.0	BL
Cobalt	1.2		0.029	0.50	
Copper	7.7		1.2	5.0	
Iron	7000		12	100	
Lead	5.2		0.15	1.5	
Magnesium	940		14	250	
Manganese	25		0.95	5.0	
Mercury	0.50	U	0.22	0.50	
Nickel	3.8	~~B~~	0.32	1.0	
Potassium	2700		40	250	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	3600		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	5.4	(B)	0.80	5.0	BL
Zinc	120		6.5	20	

CR 8/24/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1124
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	320		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.95	J	0.28	2.5	
Barium	9.9		2.0	5.0	
Beryllium	0.50	U	0.065	0.50	
Cadmium	0.50	U	0.12	0.50	
Calcium	2900		50	250	
Chromium	1.8	JB	0.60	5.0	BL
Cobalt	0.47	J	0.029	0.50	
Copper	5.0	U	1.2	5.0	
Iron	5400		12	100	
Lead	1.0	J	0.15	1.5	
Magnesium	1500		14	250	
Manganese	49		0.95	5.0	
Mercury	0.50	U	0.22	0.50	
Nickel	1.4	B	0.32	1.0	BL
Potassium	4900		40	250	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	3500		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	3.1	JB	0.80	5.0	BL
Zinc	8.1	J	6.5	20	

CK 9/2/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1131
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	540		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.68	J	0.28	2.5	
Barium	7.1		2.0	5.0	
Beryllium	0.50	U	0.065	0.50	
Cadmium	0.50	U	0.12	0.50	
Calcium	3500		50	250	
Chromium	1.9	JB	0.60	5.0	BL
Cobalt	0.27	JB	0.029	0.50	BL
Copper	1.6	J	1.2	5.0	
Iron	2500		12	100	
Lead	0.49	J	0.15	1.5	
Magnesium	1600		14	250	
Manganese	67		0.95	5.0	
Mercury	0.50	U	0.22	0.50	
Nickel	1.3	B	0.32	1.0	BL
Potassium	4100		40	250	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	4100		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	2.6	JB	0.80	5.0	BL
Zinc	13	J	6.5	20	

8/29/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2223
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	1100		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.75	J	0.28	2.5	
Barium	42		2.0	5.0	
Beryllium	0.20	J B	0.065	0.50	BL
Cadmium	0.15	J B	0.12	0.50	BL
Calcium	4500		50	250	
Chromium	2.5	J	0.60	5.0	
Cobalt	2.2		0.029	0.50	
Copper	6.7		1.2	5.0	
Iron	2100		12	100	
Lead	2.0		0.15	1.5	
Magnesium	2100		14	250	
Manganese	350	L	0.95	5.0	MSL
Mercury	0.50	U	0.22	0.50	
Nickel	4.1		0.32	1.0	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	4000		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	5.3		0.80	5.0	
Zinc	58		6.5	20	

CL 8/28/09

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2112
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	3800		40	250

CL 8/28/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2257
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	950		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.60	J	0.28	2.5	
Barium	23		2.0	5.0	
Beryllium	0.090	J B	0.065	0.50	BL
Cadmium	0.50	U	0.12	0.50	
Calcium	3600		50	250	
Chromium	1.9	J	0.60	5.0	
Cobalt	0.85		0.029	0.50	
Copper	4.1	J	1.2	5.0	
Iron	1100		12	100	
Lead	0.59	J	0.15	1.5	
Magnesium	1900		14	250	
Manganese	120	L	0.95	5.0	MSL
Mercury	0.50	U	0.22	0.50	
Nickel	3.1		0.32	1.0	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	3900		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	3.0	J	0.80	5.0	
Zinc	34		6.5	20	

8/28/09

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2146
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	4000		40	250

8/28/09

General Chemistry

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	2800		ug/L	170	1000	1.0	325.2
	Anly Batch: 680-134033	Date Analyzed		03/31/2009 1610			
Nitrogen, Kjeldahl	870	B L	ug/L	57	200	1.0	351.2
	Anly Batch: 680-133803	Date Analyzed		03/28/2009 1312			
	Prep Batch: 680-133620	Date Prepared:		03/25/2009 1530			
Nitrate as N	380		ug/L	120	250	5.0	353.2
	Anly Batch: 680-133358	Date Analyzed		03/18/2009 1420			
Nitrite as N	15	B	ug/L	10	50	1.0	353.2
	Anly Batch: 680-133683	Date Analyzed		03/18/2009 1420			
Sulfate	17000		ug/L	2500	5000	1.0	375.4
	Anly Batch: 680-134020	Date Analyzed		03/31/2009 1102			
Total Organic Carbon	6000		ug/L	500	1000	1.0	9060
	Anly Batch: 680-133531	Date Analyzed		03/24/2009 1317			

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	6100		ug/L	170	1000	1.0	325.2
	Anly Batch: 680-134033	Date Analyzed		03/31/2009 1610			
Nitrogen, Kjeldahl	1000	B L	ug/L	57	200	1.0	351.2
	Anly Batch: 680-133803	Date Analyzed		03/28/2009 1312			
	Prep Batch: 680-133620	Date Prepared:		03/25/2009 1530			
Nitrate as N	250	U	ug/L	120	250	5.0	353.2
	Anly Batch: 680-133358	Date Analyzed		03/18/2009 1420			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
	Anly Batch: 680-133683	Date Analyzed		03/18/2009 1420			
Sulfate	9300		ug/L	2500	5000	1.0	375.4
	Anly Batch: 680-134020	Date Analyzed		03/31/2009 1102			
Total Organic Carbon	12000		ug/L	500	1000	1.0	9060
	Anly Batch: 680-133531	Date Analyzed		03/24/2009 1334			

General Chemistry

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	5100		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	1600	B L	ug/L	57	200	1.0	351.2
Anly Batch: 680-133803	Date Analyzed			03/28/2009 1312			
Prep Batch: 680-133620	Date Prepared:			03/25/2009 1530			
Nitrate as N	250	U	ug/L	120	250	5.0	353.2
Anly Batch: 680-133358	Date Analyzed			03/18/2009 1420			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
Anly Batch: 680-133683	Date Analyzed			03/18/2009 1420			
Sulfate	7300		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1102			
Total Organic Carbon	13000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1352			

MSL

9/2/09

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	3300		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	1200	H L	ug/L	57	200	1.0	351.2
Anly Batch: 680-136587	Date Analyzed			04/30/2009 1324			
Prep Batch: 680-136483	Date Prepared:			04/29/2009 1430			
Nitrate as N	71		ug/L	25	50	1.0	353.2
Anly Batch: 680-133903	Date Analyzed			03/19/2009 1243			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
Anly Batch: 680-133682	Date Analyzed			03/19/2009 1243			
Sulfate	14000		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1130			
Total Organic Carbon	21000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1445			

HT

9/2/09

General Chemistry

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

Analyte	Result	Qual	Units	MDL	RL	Dil	Method	
Chloride	3700		ug/L	170	1000	1.0	325.2	
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1614				
Nitrogen, Kjeldahl	1100	H L	ug/L	57	200	1.0	351.2	HT
Anly Batch: 680-136587	Date Analyzed			04/30/2009 1324				
Prep Batch: 680-136483	Date Prepared:			04/29/2009 1430				
Nitrate as N	140		ug/L	25	50	1.0	353.2	
Anly Batch: 680-133903	Date Analyzed			03/19/2009 1243				
Nitrite as N	50	U	ug/L	10	50	1.0	353.2	
Anly Batch: 680-133682	Date Analyzed			03/19/2009 1243				
Sulfate	14000		ug/L	2500	5000	1.0	375.4	
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1130				
Total Organic Carbon	19000		ug/L	500	1000	1.0	9060	
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1536				

9/2/09

Project: Old Landfill - Hercules Aqualon, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ033
Fraction: Inorganic
Matrix: Soil
Report Date: 9/3/2009

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997, and "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 10/2004. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawnie M. Rodgers
President

9/3/2009
Date

1.0 *DATA COMPLETENESS*

The data package was missing the metals interference check standard (ICSAB) recovery summary forms. The laboratory was contacted and provided the missing forms.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

All chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

All criteria were met. No qualifiers were applied.

7.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

8.0 *LABORATORY DUPLICATE RESULTS*

All criteria were met. No qualifiers were applied.

9.0 *ICP SERIAL DILUTION RESULTS*

All criteria were met. No qualifiers were applied.

10.0 *FIELD DUPLICATE RESULTS*

There were no field duplicate samples provided for the samples in this SDG. Therefore, the sample data could not be evaluated based on this parameter.

11.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

12.0 *GFAA POST-DIGESTION SPIKE/DUPLICATE BURN*

This parameter is not applicable to the analyses performed.

13.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

14.0 *QUANTITATION/REPORTING LIMITS*

As required by USEPA protocol, all inorganic analytes which were qualitatively identified at concentrations between their respective

quantitation limits (QLs) and their method detection limits, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Analysis	Reference
Lead	Method 6020, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
Hercules-Aqualon Old Landfill
Soil Samples Collected March 2009
TestAmerica Laboratories Sample Delivery Group HAQ033

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PER LEAD
LSS-1	680-45632-1	3/18/2009	Soil	X
LSS-2	680-45632-2	3/18/2009	Soil	X
LSS-3	680-45632-3	3/18/2009	Soil	X
LSS-4	680-45632-4	3/18/2009	Soil	X
LSS-5	680-45632-5	3/18/2009	Soil	X
EB-1	680-45632-12	3/18/2009	Equipment Blank	X

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-1**

Lab Sample ID:	680-45632-1			Date Sampled:	03/18/2009 1620
Client Matrix:	Solid	% Moisture:	22.1	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Date Analyzed:	03/25/2009 1549			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead	✓	17000		100	350 ✓

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-2**

Lab Sample ID: 680-45632-2
Client Matrix: Solid

% Moisture: 19.0

Date Sampled: 03/18/2009 1630
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/25/2009 1556
Date Prepared: 03/23/2009 1111

Analysis Batch: 680-133655
Prep Batch: 680-133309

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 1000 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead	✓	18000		100	350

8/31/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-3**

Lab Sample ID:	680-45632-3			Date Sampled:	03/18/2009 1635
Client Matrix:	Solid	% Moisture:	20.0	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Date Analyzed:	03/25/2009 1603			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead	✓	22000		110	370

4/3/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-4**

Lab Sample ID: 680-45632-4
Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 03/18/2009 1640
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/25/2009 1610			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1111				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead	✓	45000		94	320

4/3/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **LSS-5**

Lab Sample ID:	680-45632-5			Date Sampled:	03/18/2009 1650
Client Matrix:	Solid	% Moisture:	16.9	Date Received:	03/19/2009 0852

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 680-133655		Instrument ID:	ICP MS - A
Preparation:	3050B	Prep Batch: 680-133309		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Date Analyzed:	03/25/2009 1703			Final Weight/Volume:	1000 mL
Date Prepared:	03/23/2009 1142				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Lead	/	18000		100	340

8/31/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45632-1
Sdg Number: HAQ033

Client Sample ID: **EB-1**

Lab Sample ID: 680-45632-12
Client Matrix: Water

Date Sampled: 03/18/2009 1745
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch: 680-133669		Instrument ID:	ICP MS - A
Preparation:	3005A	Prep Batch: 680-133353		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/24/2009 2216			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Lead	0.19	J	0.15	1.5

4/31/09

ATTACHMENT F

2011 GEOCHEMICAL SOIL BORING LOGS

Soil Boring Log

Soil Boring ID: GSB-1

PROJECT INFORMATION

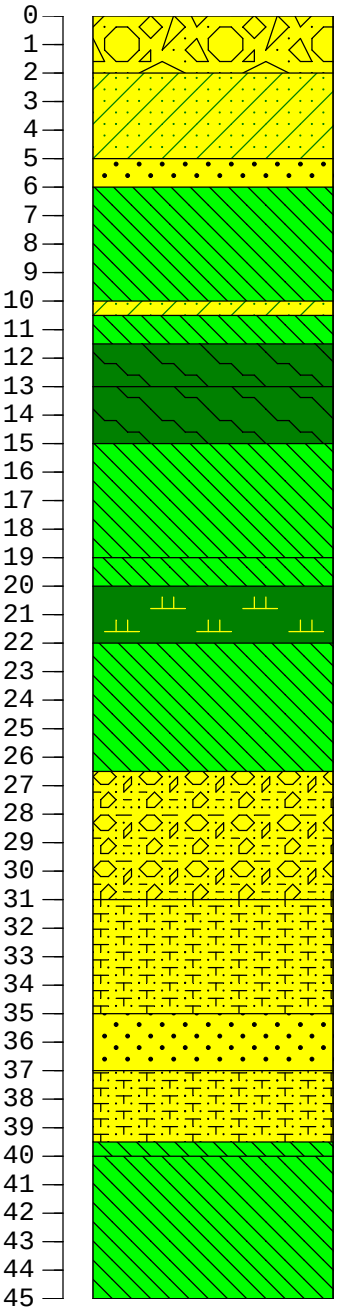
PROJECT:	**Hercules Incorporated**
SITE LOCATION:	**Hopewell, VA**
JOB NAME:	**1201555**
LOGGED BY:	**Kate Hall**
PROJECT MANAGER:	**Erin Wright**
DATES DRILLED:	**4/25/11**
WELL ID	**GSB-1**

DRILLING INFORMATION

DRILLER:	**Gary Ellingworth**
BORING DEPTH:	**45 feet**
DRILLING CO.:	**Parratt Wolff**
RIG TYPE:	**Geoprobe 7822 DT**
DRILLING METHOD:	**Macro Core**
SAMPLING METHODS:	**5' Macro Core**

▼ Observed Water Level

N/A: Not Available



DEPTH	SOIL DESCRIPTION	PID (ppm)	NOTES
0–5	FILL.		
3–5	SANDY CLAY, light brown and tan, fine grained, moist, plastic. (CL)		
5–6	SAND, brown, fine grained, moist, low plasticity. (SW)	0.0	
6–9	CLAY, brown/tan with some blue-grey, fine grained, moist, high plasticity. (CH)	0.5	
9–10	SANDY CLAY, grey-brown with some blue, moist, plastic. (CL)	0.4	
10–11	CLAY, blue-grey/tan, fine grained, moist, plastic. (CL)	1.0 0.8	
11–13	CLAYEY SILT, blue-grey/tan. very fine grained, saturated at 11.5' bls, low plasticity. (ML)	0.2	
13–15	CLAYEY SILT, blue-grey/tan. very fine grained, moist, low plasticity. (ML)	0.5	
15–18	CLAY, blue-grey/tan mottled. fine grained, moist, plastic. Small amount of Silt. (CL)	0.1	
18–20	CLAY, brown. fine grained, moist, plastic. (CL)	0.2	
20–22	SILTY CLAY, brown/tan with some blue, very fine grained, moist, high plasticity. (CL)	0.3	
22–26	CLAY, blue-grey/tan mottled, fine grained, moist, plastic. Silt at approximately 25' bls. (CL)	0.4 0.0	
26–31	GRAVEL, SAND, ROCKS, very large grained, saturated, no plasticity. Two pink rocks and two large black/clear rocks with little recovery. (GW)	▼	Sample collected at 25'-31' bls, tested for geochemical analyses.
31–35	SILTY SAND, blue-grey and tan, medium to large grained, very saturated, no plasticity. (SM)	0.3 0.7	
35–36	SAND, grey-blue, medium to large grained, saturated, no plasticity. (SW)	0.0	
36–38	SILTY SAND, blue, medium grained, saturated, no plasticity. (SM)	0.0	
38–40	CLAY, brown-grey, fine grained, moist, plastic. (CL)		
40–45	CLAY, dark brown, fine grained, moist, plastic. No odor. (CL)		Sample collected at 39'-45' bls, tested for geochemical analyses.

Soil Boring Log

Soil Boring ID: GSB-2

PROJECT INFORMATION

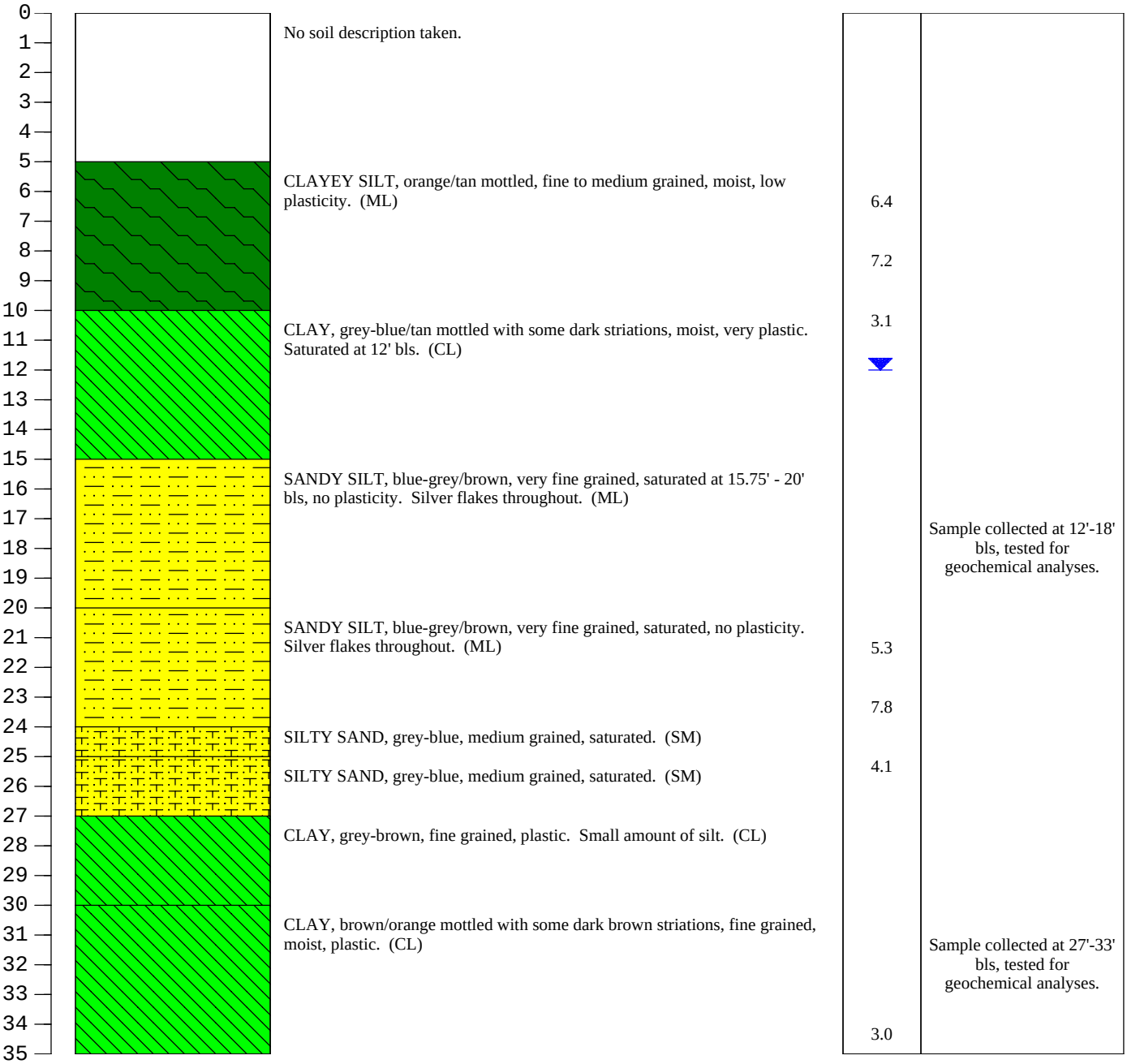
PROJECT:	**Hercules Incorporated**
SITE LOCATION:	**Hopewell, VA**
JOB NAME:	**1201555**
LOGGED BY:	**Kate Hall**
PROJECT MANAGER:	**Erin Wright**
DATES DRILLED:	**4/26/11**
WELL ID	**GSB-2**

DRILLING INFORMATION

DRILLER:	**Gary Ellingworth**
BORING DEPTH:	**35 feet**
DRILLING CO.:	**Parratt Wolff**
RIG TYPE:	**Geoprobe 7822 DT**
DRILLING METHOD:	**Macro Core**
SAMPLING METHODS:	**5' Macro Core**

▼ Observed Water Level

N/A: Not Available



DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	PID (ppm)	NOTES
0 – 5		No soil description taken.		
5 – 10		CLAYEY SILT, orange/tan mottled, fine to medium grained, moist, low plasticity. (ML)	6.4 7.2	
10 – 15		CLAY, grey-blue/tan mottled with some dark striations, moist, very plastic. Saturated at 12' bls. (CL)	3.1 ▼	
15 – 20		SANDY SILT, blue-grey/brown, very fine grained, saturated at 15.75' - 20' bls, no plasticity. Silver flakes throughout. (ML)		Sample collected at 12'-18' bls, tested for geochemical analyses.
20 – 24		SANDY SILT, blue-grey/brown, very fine grained, saturated, no plasticity. Silver flakes throughout. (ML)	5.3 7.8	
24 – 25		SILTY SAND, grey-blue, medium grained, saturated. (SM)		
25 – 27		SILTY SAND, grey-blue, medium grained, saturated. (SM)	4.1	
27 – 30		CLAY, grey-brown, fine grained, plastic. Small amount of silt. (CL)		
30 – 35		CLAY, brown/orange mottled with some dark brown striations, fine grained, moist, plastic. (CL)	3.0	Sample collected at 27'-33' bls, tested for geochemical analyses.

Soil Boring Log

Soil Boring ID: GSB-3

PROJECT INFORMATION

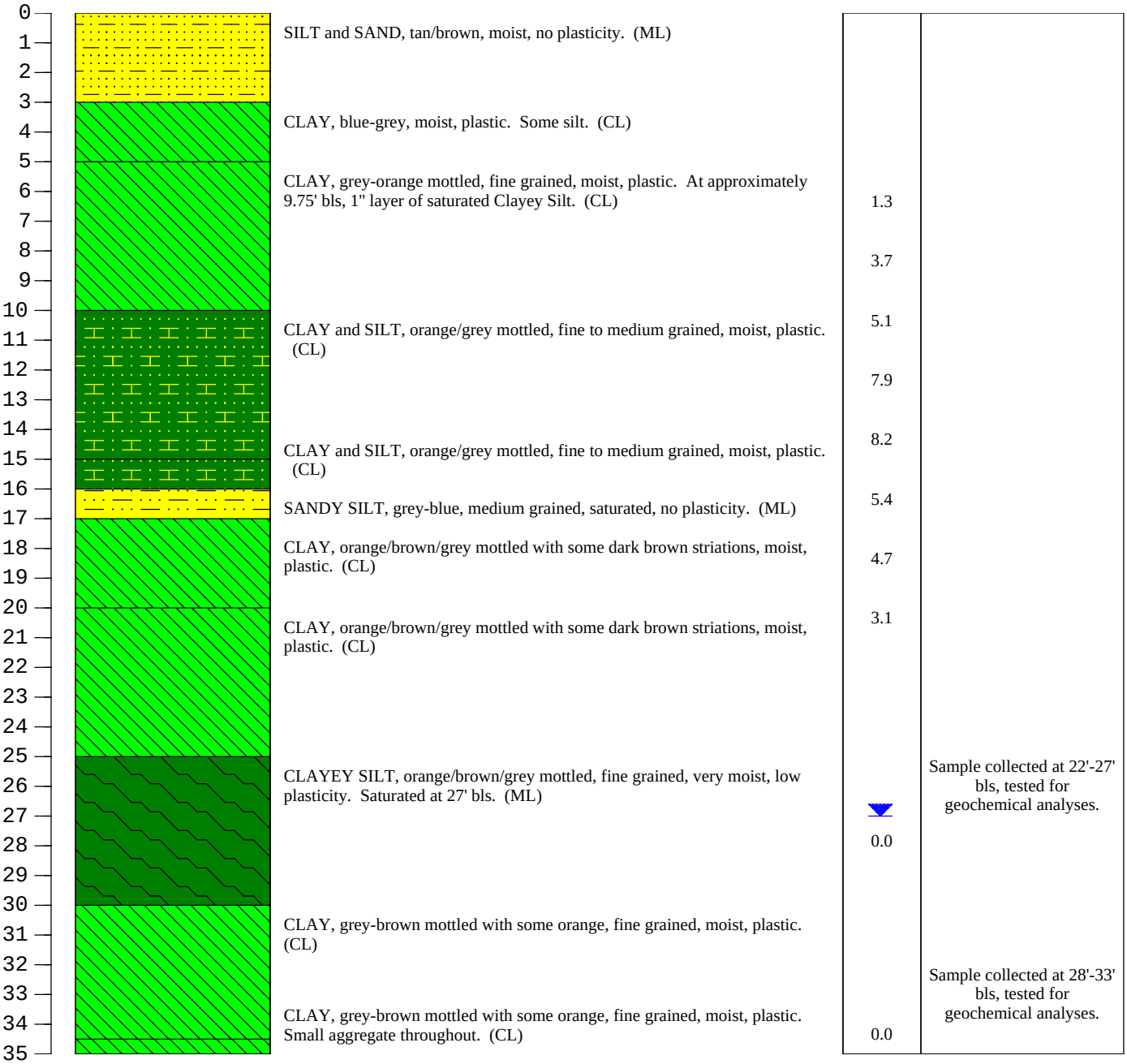
PROJECT:	**Hercules Incorporated**
SITE LOCATION:	**Hopewell, VA**
JOB NAME:	**1201555**
LOGGED BY:	**Kate Hall**
PROJECT MANAGER:	**Erin Wright**
DATES DRILLED:	**4/26/11**
WELL ID	**GSB-3**

DRILLING INFORMATION

DRILLER:	**Gary Ellingworth**
BORING DEPTH:	**35 feet**
DRILLING CO.:	**Parratt Wolff**
RIG TYPE:	**Geoprobe 7822 DT**
DRILLING METHOD:	**Macro Core**
SAMPLING METHODS:	**5' Macro Core**

▼ Observed Water Level

N/A: Not Available



DEPTH	SOIL DESCRIPTION	PID (ppm)	NOTES
0–3	SILT and SAND, tan/brown, moist, no plasticity. (ML)		
3–5	CLAY, blue-grey, moist, plastic. Some silt. (CL)		
5–10	CLAY, grey-orange mottled, fine grained, moist, plastic. At approximately 9.75' bls, 1" layer of saturated Clayey Silt. (CL)	1.3 3.7	
10–15	CLAY and SILT, orange/grey mottled, fine to medium grained, moist, plastic. (CL)	5.1 7.9 8.2	
15–16	CLAY and SILT, orange/grey mottled, fine to medium grained, moist, plastic. (CL)		
16–17	SANDY SILT, grey-blue, medium grained, saturated, no plasticity. (ML)	5.4	
17–20	CLAY, orange/brown/grey mottled with some dark brown striations, moist, plastic. (CL)	4.7	
20–25	CLAY, orange/brown/grey mottled with some dark brown striations, moist, plastic. (CL)	3.1	
25–27	CLAYEY SILT, orange/brown/grey mottled, fine grained, very moist, low plasticity. Saturated at 27' bls. (ML)		Sample collected at 22'-27' bls, tested for geochemical analyses.
27	▼		
27–30		0.0	
30–34	CLAY, grey-brown mottled with some orange, fine grained, moist, plastic. (CL)		
34–35	CLAY, grey-brown mottled with some orange, fine grained, moist, plastic. Small aggregate throughout. (CL)		Sample collected at 28'-33' bls, tested for geochemical analyses.
		0.0	

ATTACHMENT G

HOPEWELL SITE GEOCHEMISTRY LETTER REPORT

Geochemistry Services LLC

724 Tyler Street, #3
Port Townsend, WA 98368
Phone: (360) 808-2165
E-Mail: billdeutsch@me.com

November 9, 2011

Monty Bennett
Groundwater & Environmental Services, Inc.
Exchange Alley Building
23 South 13th Street Suite 103
Richmond, VA 23219

Subject: Hercules Aqualon Hopewell Site - Geochemical Characterization and Model

This letter report provides a description of the geochemical sampling of sediment and groundwater conducted at the Hercules Aqualon Hopewell (Virginia) site designed to understand aquifer geochemistry as it pertains to biodegradation of organic contaminants. A conceptual geochemical model describing the active water/rock processes between the groundwater and solid phases comprising the aquifer is presented. This model can be used to evaluate the occurrence of biodegradation and natural attenuation of organics in the subsurface.

Introduction

Hercules operates the Aqualon Division chemical manufacturing facility (Facility) at 1111 Hercules Road in Hopewell, Virginia. Part of the current 390-acre site was initially acquired by Hercules from DuPont in 1926 to manufacture purified cotton cellulose for the chemical and paper industry. Today, Hercules operates four cellulose derivative lines and provides its chemical products to the food, cosmetics, paint, and pharmaceutical industries (GES 2007).

In 2000, Hercules and the United States Environmental Protection Agency (USEPA) entered into a Facility Lead Agreement for the implementation of Corrective Action under the Resource Conservation and Recovery Act (RCRA). The October 2001 *Facility Lead Corrective Action Agreement Workplan* identified 34 Solid Waste Management Units (SWMUs) at the Facility. Upon review of the operational histories and current status of the units, 24 SWMUs were designated as needing No Further Action (NFA). Specific unit descriptions and supporting evidence for the NFA designations can be found in the October 2001 *Facility Lead Corrective Action Agreement Workplan* previously submitted to and approved by USEPA. The remaining ten SWMUs were designated as needing further investigative activities. The locations of the SWMUs and other existing site features may be found on Figure 2 of the *Phase III Site Investigation Summary Report* (Phase III Report, GES 2007). The results of the completed additional investigative activities may be found in this Phase III Report.

Based on contaminant concentrations in sludge, soil, and groundwater, the Phase III Report recommended that several SWMUs be retained for further evaluation. The former Main Holding Basin (MHB, SWMU #1) was retained because of elevated concentrations of organic contaminants in groundwater. The predominant organics in groundwater from monitoring wells in the vicinity of the MHB are diethyl ether, t-butanol, ethanol, and methanol. During the 2007 groundwater sampling round, diethyl ether was measured at a maximum concentration of 11,000 µg/L (MW-2), t-butanol was measured at 5,000 µg/L (MW-8L), ethanol was measured at 11,000 µg/L (MW-2), and methanol was measured as high as 3,000 µg/L (MW-5U). Similar groundwater concentrations of diethyl ether and t-butanol were measured during the April 2011 sampling round; however, the concentrations of methanol were found to be higher at 120,000 µg/L (MW-2) and 160,000 µg/L (MW-5U) (Final RFI Report, GES 2011).

One of the objectives of the 2011 site characterization program was to conduct a geochemical site evaluation in the vicinity of the MHB to identify and quantify groundwater/sediment interactions. These interactions may show the occurrence of biodegradation reactions in the aquifer that reduce organic contaminant concentrations and/or result in natural attenuation of these constituents along the groundwater flowpath away from a source.

Geochemistry of Organic Compound Biodegradation

The geochemical environment of an aquifer provides information on the potential for and occurrence of biodegradation of contaminants. Organic compounds can be transformed from one species to another organic species or to inorganic carbon (carbonate species) by naturally occurring microorganisms that utilize the contaminants for food or energy production. For example, in an oxidizing geochemical environment, petroleum hydrocarbons are known to be effectively biodegraded because the fuel compounds serve as electron donors for microbial metabolism (EPA 2004). Conversely, in a reducing environment, chlorinated organic compounds are more effectively transformed because they can be used by microorganisms as electron acceptors (EPA 2004). The alcohols (t-butanol, ethanol, and methanol) and ether (diethyl ether) found in groundwater associated with the MHB will be primarily biodegraded by microorganisms that utilize the compounds as electron donors. As such, the microorganisms require an electron acceptor (oxidizing agent) to complete the biogeochemical reaction. Typical natural oxidizing agents found in aquifers under aerobic and anaerobic conditions are shown in the following reactions in which the carbon in diethyl ether ($C_2H_5OC_2H_5$) with a valence state of -II is oxidized to C(+IV) in CO_2.

Aerobic: $C_2H_5OC_2H_5 + 6O_2 \rightarrow 4CO_2 + 5H_2O$

Denitrification: $C_2H_5OC_2H_5 + 6H^+ + 3NO_3^- \rightarrow 4CO_2 + 3NH_4^+ + 2H_2O$

Manganese Reducing: $C_2H_5OC_2H_5 + 12MnO_2 + 24H^+ \rightarrow 4CO_2 + 12Mn^{2+} + 17H_2O$

Iron Reducing:	$C_2H_5OC_2H_5 + 24Fe(OH)_3 + 48H^+ \rightarrow 4CO_2 + 24Fe^{2+} + 65H_2O$
Sulfate Reducing:	$C_2H_5OC_2H_5 + 3SO_4^{2-} + 6H^+ \rightarrow 4CO_2 + 3H_2S + 5H_2O$
Methanogenesis:	$C_2H_5OC_2H_5 + H_2O \rightarrow CO_2 + 3CH_4$

In these biodegradation reactions, the oxidizing agents for diethyl ether are either dissolved species (O_2, NO_3^-, SO_4^{2-}) or solid phase species [such as Fe(III) in the solid phase $Fe(OH)_3$]. In the case of methanogenesis, the microorganisms do not need a separate oxidizing agent for carbon. They oxidize some of the carbon to C(IV) in CO_2 and reduce the remainder to C(-IV) in CH_4 (methane). Similar biodegradation reactions could be written for the other contaminants of interest at this site. The important points are that the organics can be biodegraded under both aerobic and anaerobic conditions and that the necessary oxidizing agents are generally available in shallow aquifer systems.

The sequence of biodegradation reactions shown above progresses from strongly oxidizing with molecular oxygen (O_2) as the oxidizing agent to strongly reducing in which methane (CH_4) is generated. To evaluate whether or not biodegradation is occurring at a particular site it may be possible to quantify the loss of an organic contaminant along a flowpath away from the source. This is often difficult to show at a facility like the Hopewell site where there are multiple sources of contaminants that contribute to groundwater along its movement away from a source like the MHB. A second method of documenting the occurrence of biodegradation is to quantify decreases in dissolved concentrations of oxidizing agents and increases in reaction byproducts. For the reactions listed above, biodegradation would result in decreases in dissolved O_2, NO_3^-, and SO_4^{2-} with increases in dissolved NH_4^+, Mn, Fe, H_2S, and methane depending on the degree that the redox potential is lowered by these reactions (Wiedemeier et al. 1999; National Research Council 2000).

The redox potential of the aquifer itself can show whether or not a strong reducing agent, such as a biodegradable organic contaminant, is present and reactive in an aquifer. Shallow, water-table aquifers without either natural or contaminant reducing agents commonly contain dissolved molecular oxygen at levels of 1 to 10 mg/L because the water is in contact with vadose zone soil gas that has an oxygen gas level (21%) similar to that of atmospheric air. As a consequence, typical, unimpacted shallow groundwater is strongly oxidizing and has a high, positive redox potential. If reactive organic contaminants are present, the redox potential will be depressed because the oxidizing agents (see reactions above) have been consumed to some extent by biodegradation reactions.

Sampling and Analysis

In order to evaluate the occurrence of biodegradation in the vicinity of the MHB SWMU and better understand the geochemical processes occurring in the aquifer, groundwater samples were collected and analyzed for geochemical parameters. In

addition, at the locations of three of the sampled monitoring wells, adjacent aquifer solid samples were collected to quantify the presence of reducible iron and manganese oxyhydroxides that are potential oxidizing agents. The ten monitoring wells chosen for geochemical sampling are listed in Table 1 and shown on Figure 1. They are all adjacent to the MHB, except for SDB-MW2, which is adjacent to the Sludge Drying Beds (SDB, SWMU #14). Table 1 also lists the locations and sampling intervals for the solid phase samples.

Groundwater from each of the monitoring wells was sampled and analyzed in April 2011 for a wide range of parameters, including field measurements of temperature, pH, ORP, dissolved oxygen, specific conductance, and turbidity as well as laboratory analysis of major ions (Ca, Mg, Na, K, HCO_3, CO_3, Cl, SO_4, NO_3, NO_2), metals (Fe, Mn, Al, Co, Cr, Cu, Ni, Pb, Zn, etc.), and minor constituents (NH_4, PO_4, S^{2-}, F, and Br). The complete groundwater analytical results are included in Table 7 and the laboratory analytical reports are included in Attachment H.

Solid phase samples of subsurface material were collected in April 2011 near monitoring wells MW-4, MW-8, and SDB-MW2. The samples were collected at two depths within the monitoring well screen intervals using a drivepoint coring unit (Table 1). Collecting solid samples from the screen depths of the monitoring wells allows for comparison of groundwater composition with the associated aquifer solid phase composition. The solid phase analytical results are summarized in Table 3 and the full analytical report is included as Attachment 1.

The concentrations of Fe and Mn oxidizing agents in the solid phase were estimated using a modified European Community Bureau of Reference (BCR) selective extraction process (Rauret et al. 1999) to preferentially dissolve the Fe and Mn oxyhydroxides in the samples. The modified BCR extraction consisted of dissolving the metal oxyhydroxides using first acetic acid at pH 2.85 to dissolve readily soluble amorphous Fe and Mn oxyhydroxides and carbonates, followed by hydroxlyammonium chloride at pH 2 to dissolve more crystalline iron and manganese oxyhydroxides. At each stage, the extract solutions were analyzed for Fe and Mn to estimate the initial concentrations of the solids in the aquifer sediment. This concentration can be used to evaluate the amount of Fe and Mn oxidizing agent present in the aquifer that could be utilized by microorganisms for biodegradation.

Model Calculations

The PHREEQC geochemical modeling code (Parkhurst and Appelo 1999) was used with the groundwater data to calculate solution speciation and saturation indices for minerals potentially in equilibrium with the groundwater composition. The MINTEQ.v4.dat database included with the code provided all the necessary equilibrium constants for the calculations to develop a conceptual geochemical model for this aquifer system.

Results

The results of the geochemical analyses of groundwater and sediment samples collected during April 2011 for the geochemical study are described in this section. In addition, the PHREEQC ion speciation and mineral equilibrium calculations are discussed.

Groundwater Analytical Results

Groundwater level measurements collected by GES in 2007 (GES 2007, Figure 4) in the vicinity of the MHB SWMU show a relatively flat water table. The monitoring wells selected for geochemical characterization were chosen based on location relative to the SWMUs and available historical data. As such, the groundwater compositions for these monitoring wells will be discussed as a group rather than as monitoring points along a flowpath.

Table 2 provides measurements of field parameters for the ten monitoring wells sampled as part of the geochemical study. The pH values are all in the narrow range of 5.65 (MW-2) to 6.91 (MW-5U). Monitoring well MW-8D in the Lower Sand is included in this range with its pH of 6.83. This pH range is conducive to biodegradation reactions because the pH is not too acidic or too alkaline. The oxidation/reduction potentials (ORPs), which are a measure of the redox state of the aquifer system, cover a fairly large range of values from a low of -128.9 mV (MW-5U) to a high of 84.3 mV (SDB-MW2). At the measured pH values for these groundwaters, most of the lower ORPs are reducing relative to the Fe(II)/Fe(III) redox couple, which explains the relative high dissolved iron concentrations in these groundwaters, as discussed below. The low ORPs are also consistent with the low measured concentrations of dissolved oxygen that are in the range of 0.18 to 1.32 mg/L.

The concentrations of dissolved constituents in the groundwater are also listed in Table 2. The dominant cation in almost all of the Upper Sand monitoring wells is Na, which ranges from 190 mg/L (MW-3) to 1,800 mg/L (MW-5U). The only exception is monitoring well SDB-MW2 where Ca is the dominant cation at 420 mg/L while Na has a slightly lower concentration of 300 mg/L. A similar predominance of major cations occurs in the Lower Sand monitoring well MW-8D where calcium has a concentration of 35 mg/L and Na is 12 mg/L. In general, the dissolved concentrations of species in the deeper monitoring well MW-8D are a factor of 10 lower than the concentrations in the Upper Sand monitoring wells as shown in general by the conductivity of 0.21 mS/cm for MW-8D versus a conductivity of greater than 2 mS/cm for the shallower monitoring wells.

The dominant anion in groundwater varies among the monitoring wells between chloride, carbonate (measured as alkalinity), and sulfate. Chloride is dominant in MW-2 (1,000 mg/L), MW-5U (2,000 mg/L), MW-5 (1,200 mg/L), and MW-8U (480 mg/L), while carbonate dominates in MW-3 (260 mg/L), MW-4U (680 mg/L), MW-4

(670 mg/L), and MW-8D (100 mg/L), and sulfate is the dominant anion in MW-1 (710 mg/L) and SDB-MW-2 (1,200 mg/L). In uncontaminated shallow groundwaters, the typical dominant cation is calcium and the typical dominant anion is carbonate. The occurrence of sodium and chloride/sulfate as the major ions in these monitoring wells shows impact on major dissolved species from contaminant sources such as the MHB and, possibly, the Whitewater Lagoons. The presence of more than one dominant anion suggests impacts from multiple sources or a temporally varying source.

Dissolved iron (Fe) in groundwater is an excellent indicator of the redox status of the geochemical system, especially at pH values greater than about 5.5. Under these pH conditions, the dissolved Fe concentration is usually less than 1 mg/L when the ORP is greater than about 0 mV because the mineral ferrihydrite [$Fe(OH)_3$] is relatively insoluble and limits dissolved Fe to this low level. Under lower pH conditions or negative ORPs, ferrihydrite becomes more soluble and is in equilibrium with higher dissolved Fe levels. As a consequence, the presence of dissolved Fe at values greater than 1 mg/L at near neutral pH suggests reducing conditions in the aquifer relative to the Fe(II)/Fe(III) redox couple. High dissolved Fe also suggests the occurrence of the iron-reducing biodegradation reaction listed above. In this case, the reducing conditions are driven by the presence of an organic contaminant reducing agent (such as diethyl ether, t-butanol, or ethanol/methanol, which are electron donors) and the microorganisms use the Fe(III) in ferrihydrite as the oxidizing agent (electron acceptor). Almost all of the monitoring wells associated with the MHB have elevated Fe ranging from 8 mg/L (MW-1) to 130 mg/L (MW-2). These Fe levels suggest that the aquifer in the vicinity of these monitoring wells has been impacted by the presence of organic contaminants and their partial biodegradation. Table 2 shows measurements of high levels of organic compounds in these monitoring wells with MW-2 (highest dissolved Fe concentrations) having some of the highest levels of diethyl ether (10 mg/L) and methanol (120 mg/L). The only exceptions to the elevated Fe levels are in MW-8D (0.064 mg/L Fe), which is in the unimpacted Lower Sand, and SDB-MW-2 (0.45 mg/L Fe), which has a relatively high ORP (84.3 mV) and is not apparently impacted by organic contaminants to any great extent.

Manganese (Mn) is geochemically similar to Fe; however, its oxidized minerals tend to dissolve at a higher ORP than ferrihydrite. As such, if oxidized Mn minerals are present in an aquifer, they would be expected to provide high dissolved Mn concentration in a manner similar to the oxidized Fe minerals. Table 2 shows that almost all of the monitoring wells have dissolved Mn concentrations greater than 1 mg/L. This is another indication that biodegradation reactions are occurring in the aquifer. In this case, the Mn reduction reaction shown above is contributing to oxidation of the organic compounds.

Also discussed above in the section on biodegradation is the consumption of dissolved oxidizing agents, such as nitrate and sulfate, and the production of their byproducts, ammonium and sulfide during biodegradation. The nitrate/ammonium

groundwater data suggest that denitrification (or ammonification, see reaction above) may be occurring in this aquifer. There is very little dissolved nitrate in the groundwater with lab measurements generally close to or below a detection limit of 0.05 mg/L. On the other hand, ammonium is generally present at levels greater than 0.1 mg/L with high values of 12 mg/L in MW-8U and 5.5 mg/L in MW-3. The exceptions are MW-8D (0.047 mg/L NH_4) and SDB-MW-2 (0.078 mg/L NH_4), which do not appear to be located in zones of active biodegradation, as mentioned in the Fe discussion above.

Sulfate (SO_4) is present at relatively high concentrations as a major anion in almost all of the monitoring wells; therefore, its consumption cannot be readily identified and used as an indicator of biodegradation. However, the presence of dissolved sulfide (S^{2-}) from reduction of some of the sulfate is a good indicator of strongly reducing conditions likely produced by organic compound biodegradation. Sulfide was measured in the range of 2.1 to 4.6 mg/L in five of the eight Upper Sand monitoring wells. These were MW-3, MW-4U, MW-4, MW-5, and MW-8U. The two monitoring wells with the highest sulfide concentrations (MW-4U – 4.6 mg/L S^{2-} and MW-4 – 3.3 mg/L S^{2-}) correspond to the monitoring wells with the lowest sulfate concentrations (MW-4U – < 5 mg/L SO_4^{2-}; MW-4 – < 50 mg/L SO_4^{2-}). This may show a direct correspondence between sulfate consumption and sulfide production at this location.

The occurrence of elevated Fe, Mn, NH_4, and S^{2-} concentrations in groundwater and the low redox potential and molecular oxygen concentrations provide strong evidence of active biodegradation of organic compounds in the shallow aquifer. The ability of the aquifer to continue the biodegradation process is dependent on the presence of oxidizing agents in the system, particularly solid phase oxidants like reducible Fe and Mn minerals that are discussed in the following section.

Solid Phase Analytical Results

Table 3 provides the results of the BCR selective extractions that quantify the amount of reducible Fe and Mn solids in the aquifer. As mentioned in the sampling and analysis discussion, some of the first stage extracted Fe and Mn may come from carbonate minerals of these metals. These are siderite ($FeCO_3$) and rhodochrosite ($MnCO_3$) that have Fe and Mn in the reduced (+II) valence state. As such, this portion of the solid phase Fe and Mn is not available as an oxidizing agent (electron acceptor). The remaining first stage Fe and Mn is likely present in the solid phase as more oxidized species of Fe and Mn in oxyhydroxides minerals that can be utilized as oxidizing agents. It is not possible from the data to determine how much of the first stage Fe and Mn solids are present as carbonate or oxyhydroxide minerals. In most cases, the data in Table 3 show that the majority of the extracted Fe and Mn is associated with the second extraction stage in which it is assumed that all of the Fe and Mn is present as the more oxidized species, and is thus available as an oxidizing agent for biodegradation.

The amount of Fe and Mn oxidizing agent present in the aquifer solid phase is large. For example, in the shallow zone sampled near monitoring well MW-4 (25 to 25.6 ft below land surface), the reducible Fe concentration in sediment is 1,570 mg-Fe/kg-sediment. In order to compare this solid phase concentration to a groundwater concentration of an organic contaminant in contact with this sediment, the solid phase concentration has to be converted from mg/kg-sediment to mg/L-water. The method of conversion uses the bulk density (ρ_b) of the aquifer and its porosity (η). Assuming that the bulk density is 2 kg-sediment/L-sediment and the porosity is 0.25. The conversion factor is ρ_b/η = (2 kg- sediment /L- sediment)/(0.25 L-water/L-sediment) = 8 kg-sediment/L-water. The reducible Fe concentration in mg/L-water is:

1,570 mg-Fe/kg-sediment x 8 kg-sediment/L-water = 12,560 mg-Fe/L-water

Assuming that diethyl ether is being biodegraded according to the reaction:

$$C_2H_5OC_2H_5 + 24Fe(OH)_3 + 48H^+ \rightarrow 4CO_2 + 24Fe^{2+} + 65H_2O$$

then, 18 mg of Fe in $Fe(OH)_3$ is required to oxidize 1 mg of diethyl ether. Consequently, the 12,560 mg of Fe in the solid phase in contact with each liter of groundwater is capable of oxidizing 698 mg of diethyl ether. As shown in Table 2, the combined concentrations of diethyl ether, t-butanol, and methanol in groundwater at monitoring well MW-4 is 9.3 mg/L. Methanol is present at higher concentrations of 120 mg/L in MW-2 and 160 mg/L in MW-5U. The amount of methanol that can be oxidized by the solid phase Fe(III) used in the diethyl ether calculation is 1,200 mg/L, which is about 7.5x the maximum measured methanol concentration. In addition to reducible Fe, some component of the first stage extraction is likely available as an oxidizing agent and some sediments have measurable reducible Mn. From these measurements of reactive Fe and Mn in the sediment, it appears that significant concentrations of solid phase oxidizing agents are present in the aquifer to support biodegradation of organic contaminants.

PHREEQC Mineral Equilibrium Calculation Results

The saturation indices of selected minerals that might be in equilibrium with the groundwater compositions measured in the monitoring wells are listed in Table 4. If the saturation index of a mineral calculates to be near 0 (± 0.5), then it is likely that the mineral is in equilibrium with the solution composition, and the mineral is limiting the dissolved concentration of one of its components in groundwater. If the saturation index is >0.5, then the mineral is oversaturated with respect to the solution composition and is not forming at a sufficient rate to limit dissolved concentrations of its components. If the saturation index is <-0.5, then the mineral is undersaturated, and its components are not present in solution at high enough concentrations for the mineral to form. In this case, the mineral is not effective at limiting solution concentration because it is not precipitating.

The calculated saturation indices for manganite (MnOOH), which contains the potentially oxidizing +III valence state of Mn, are strongly undersaturated in all the groundwaters. This shows that it is unlikely that this Mn mineral or other higher valence state Mn minerals are available in the aquifer to provide electron acceptors for biodegradation. The Mn mineral rhodochrosite, which contains the +II valence state of Mn, calculates to be in equilibrium with several groundwater compositions (MW-4, MW-4U, MW-5, MW-5U, and MW-8U). Rhodochrosite is likely present in the aquifer at these locations and is controlling the dissolved Mn concentrations; however, the Mn in this mineral is not an electron acceptor because Mn cannot be reduced by microorganisms to a valence state lower than +II.

Ferrihydrite [$Fe(OH)_3$] contains the +III oxidized valence state of Fe, and this mineral is at equilibrium or slightly oversaturated in all sampled groundwaters. This shows that ferrihydrite is likely present in the aquifer and can provide for oxidation of organic contaminants by microorganisms. This capacity was also shown by the BCR selective extractions described above in which reducible Fe (i.e., that present in minerals like ferrihydrite) was measured in the second stage of the extraction. Siderite contains the reduced +II valence state of Fe, and is not a source of oxidant for biodegradation. It calculates to be at or near equilibrium in the five monitoring wells MW-2, MW-3, MW-5, MW-5U, and MW-8U. This shows that some of the Fe released during the first stage of the BCR selective extractions is likely due to dissolution of this carbonate mineral and should not be included in calculations of aquifer solid phase oxidizing capacity. The calculation described in the previous section did not include the Fe from the first stage of the BCR extraction.

Shallow groundwaters are typically in equilibrium with calcite ($CaCO_3$), and the saturation indices listed in Table 4 show that calcite is in equilibrium with five of the ten groundwaters sampled for geochemical purposes. The presence of calcite in the aquifer is important because it tends to buffer the pH of the aquifer geochemical system.

Conceptual Geochemical Model of Biodegradation

A geochemical model is a representation of a site in terms of the water/rock processes that produce the observed groundwater and solid phase compositions. In the case of the Hopewell site, the focus of the model is the geochemical processes that participate in and enhance the progress of biodegradation of organic compounds.

Because of the comingling of plumes in the vicinity of the MHB, it is not possible to evaluate the typical evolution of biodegradation processes along a flowpath from the source. The geochemical evolution of biodegradation typically progresses from strongly oxidizing, aerobic conditions at the upgradient edge of the source of organic contamination, to strongly reducing, anaerobic conditions in the core of the plume at the source area, and then to a return to more oxidizing conditions downgradient of the source as the residual plume mixes with unimpacted, oxidizing

groundwater in the aquifer. Although this evolution cannot be characterized at the MHB because of the multiple contaminant sources and lack of established flow direction, it is apparent from the measurement of geochemical parameters in the groundwater adjacent to the MHB that biodegradation is occurring.

Microorganisms are utilizing naturally occurring dissolved oxygen, nitrate, and sulfate and solid phase Fe and Mn oxyhydroxide minerals to oxidize some of the organic contaminants. The results are a reduced redox potential, low levels of dissolved molecular oxygen and nitrate in the plume, and relatively high dissolved levels of the reaction byproducts ammonium, sulfide, Fe, and Mn. The measured sediment concentration of reducible Fe oxyhydroxide minerals shows that the sediment has an appreciable oxidation capacity to continue biodegradation reactions. Although biodegradation reactions involving the organic contaminants are occurring in the aquifer, they are apparently not sufficient to eliminate contaminants from groundwater because of the continuing measurements of these contaminants in groundwater in the vicinity of the MHB.

Summary and Conclusions

Geochemical groundwater and sediment sampling of the Hercules Ashland Hopewell site was conducted in April 2011. Groundwater in the vicinity of the MHB has organic contaminants at levels as high as 160 mg/L for methanol and several milligrams per liter for diethyl ether and t-butanol. Field measurements and laboratory analytical results for the geochemical parameters show the occurrence of active biodegradation of organic compounds. Aerobic and anaerobic biodegradation reactions are occurring that result in a reduction of oxidizing agents (O_2 and NO_3 in groundwater) and high levels of reduced byproducts (NH_4^+, S^{2-}, Fe, and Mn). Additionally, the redox potential (ORP) is low in the plume showing the consumption of natural aquifer oxidizing agents by reactions with organic reducing agents. Although the organic contaminants persist in the aquifer, there are high concentrations of reducible Fe oxyhydroxide minerals in the solid phase that will allow microorganisms to continue biodegradation of the organic contaminants. As discussed in the section on the solid phase analytical results, the oxidizing capacity of the iron minerals in some locations of the aquifer is about 7.5 times the maximum concentration of methanol in groundwater, which is the dominant dissolved organic compound.

Sincerely,

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Table 1. Groundwater and Sediment Sampling Locations – Hercules Aqualon Site, April 2011.

Groundwater Sampling Locations	Unit Sampled*	Screen Interval Depth (ft)	
MW-1	US	17 to 47	
MW-2	LPUS	33 to 53	
MW-3	LPUS	33 to 53	
MW-4U	LPUS	21 to 36	
MW-4	LPUS	32 to 52	
MW-5U	UPUS	16 to 26	
MW-5	US	27 to 52	
MW-8U	UPUS	8 to 23	
MW-8D	LS	41 to 51	
SDB-MW2	UPUS	22 to 32	
Sediment Boring Locations	Unit Sampled	Sediment Sampling Intervals Depth (ft)	
GSB-1 near MW-4	LPUS	25 to 31	39 to 45
GSB-2 near MW-8	UPUS	12 to 18	27 to 33
GSB-3 near SDB-MW2	UPUS, LPUS	22 to 27	28 to 33

*US - upper sand
LPUS - lower portion of upper sand
UPUS - upper portion of upper sand
LS – lower sand

Table 2. Hercules Aqualon Site – Field and Laboratory Analysis of April 2011 Groundwater Samples

Analyte	**Units**	**MW-1**		**MW-2**		**MW-3**		**MW-4U**		**MW-4**		**MW-5U**		**MW-5**		**MW-8U**		**MW-8D**		**SDB-MW2**	
		5/2/11		**4/29/11**		**4/26/11**		**4/29/11**		**4/29/11**		**4/29/11**		**4/29/11**		**4/26/11**		**4/26/11**		**4/26/11**	
Natural Attenuation Parameters		**Results/ Qualifiers**																			
pH	std units	5.81		5.65		6.54		6.28		6.28		6.91		6.54		6.54		6.83		5.97	
Conductivity	mS/cm	2.15		3.49		0.52		3.32		2.45		7.80		2.77		2.73		0.21		2.26	
Dissolved Oxygen	mg/L	0.42		1.24		0.49		0.23		0.77		0.92		1.32		0.18		0.27		0.81	
Temperature	ºC	18.93		19.45		18.78		18.90		17.42		19.74		19.10		21.43		19.80		17.16	
Oxidation Reduction Potential	mV	33.70		16.80		-90.70		-61.60		-57.10		-128.90		-106.90		-96.60		-46.40		84.30	
Final Turbidity	NTU	6.12		8.95		4.66		6.72		5.58		3.52		9.81		12.90		15.90		3.12	
Organic Compounds																					
Diethyl ether	mg/L	1.7		10				1.7		1.4		0.65		0.2		1.8					
t-butanol	mg/L							3.4		2.8				0.15		1.8					
Ethanol	mg/L	1.7	L													1.4					
Methanol	mg/L			120						5.1		160									
Inorganics, Metals																					
Calcium, Dissolved	mg/L	170		230		59		100		120		140		170		210		35		420	
Magnesium, Dissolved	mg/L	48		77		9.9		42		38		35		37		54		3.1		110	
Sodium, Dissolved	mg/L	250		340		190		520		490		1,800		700		450		12		300	
Potassium, Dissolved	mg/L	4.2		4.4		7.8		10		6.6		6.3		6.2		26		4.4		1.9	
Aluminum, Dissolved	mg/L	0.05	U	0.023	J	0.05	U	0.05	U	0.05	U	0.05	U	0.087		0.05	U	0.062		0.05	U
Iron, Dissolved	mg/L	8		130		15		92		64		13		47		34		0.064	J	0.45	
Manganese, Dissolved	mg/L	2.9		8.6		0.64		1.8		2.4		2.2		2.8		2.6		0.22		1.5	
Barium, Dissolved	mg/L	0.062		0.16		0.35		0.8		0.78		0.13		0.66		0.32		0.064		0.012	

Table 2, continued. Hercules Aqualon Site – Field and Laboratory Analysis of April 2011 Groundwater Samples

Analyte	**Units**	**MW-1**		**MW-2**		**MW-3**		**MW-4U**		**MW-4**		**MW-5U**		**MW-5**		**MW-8U**		**MW-8D**		**SDB-MW2**	
		5/2/11		**4/29/11**		**4/26/11**		**4/29/11**		**4/29/11**		**4/29/11**		**4/29/11**		**4/26/11**		**4/26/11**		**4/26/11**	
Inorganics, Other		**Results/ Qualifiers**																			
Alkalinity as $CaCO_3$	mg/L	95		140		260		680		670		970		370		460		100		300	
Sulfate	mg/L	710		420		37		5	U	50	U	390		150		340		4.8	J	1200	
Chloride	mg/L	220		1,000		110		650		540		2,000		1,200		480		4		130	
Nitrate as N	mg/L	0.019	J	0.15		0.31	H	0.05	U	0.05	U	0.028	J	1		0.018	J H	0.097	H	0.05	U H
Nitrite as N	mg/L	0.05	U	0.05	U	0.05	U H	0.022	J	0.012	J	0.05	U	0.05	U	0.05	U H	0.05	U H	0.05	U H
Ammonium ion as NH_4 (Filtered)	mg/L	0.24		0.15		5.5		4.8		2.2		1		0.9		12		0.047		0.078	
Orthophosphate, Dissolved	mg/L	0.38		0.05	U H	0.22	H	0.05	U H	0.05	U H	0.038	J H	0.05	U H	0.05	U H	0.1	H	0.05	U H
Sulfide	mg/L	1	U	1	U	2.7		4.6		3.3		1	U	2.1		2.5		2.8		1	U
Silicon	mg/L	19		14		17	B	15		16		19		12		19	B	18	B	18	B
Dissolved Organic Carbon	mg/L	3.3		4.7		10		35		31		29		16		12		1	U	5.8	
Total Organic Carbon	mg/L	3.7		4.8		9		36		32		26		14		11		0.61	J	6.3	
Qualifiers:																					

J = The positive result for this analyte is a quantitative estimate.

B = The compound/ analyte was not detected substantially above the level of the associated method blank / preparation or field blank.

H = Compound analyzed outside of holding time.

U = Compound/analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

L = The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.

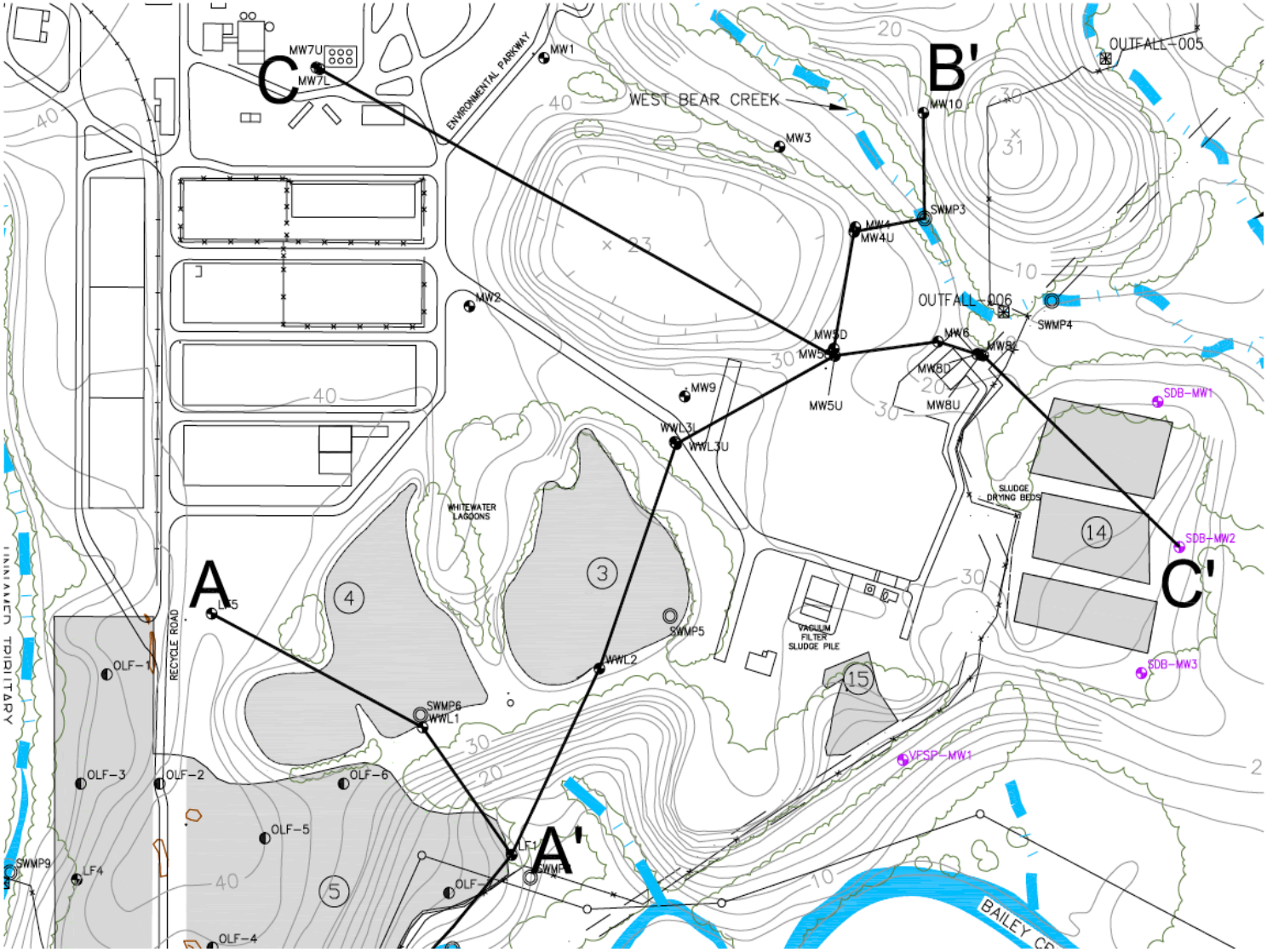
Table 3. Hercules Ashland BCR Sequential Extraction Sediment Results (mg/kg dry weight basis)

GSB-1 (25-26.5) (near MW-4)			
Fraction	**Analyte (mg/kg)**	**Fe**	**Mn**
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	1600	77.7
0.1M NH2OH HCl	Reducible (Fe and Mn)	1570	88.4
	Total Fe and Mn	3170	166
GSB-1 (40-41.5) (near MW-4)			
Fraction	**Analyte (mg/kg)**	**Fe**	**Mn**
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	1130	12.4
0.1M NH2OH HCl	Reducible (Fe and Mn)	834	8.37
	Total Fe and Mn	1964	21
GSB-1 (40-41.5) MD (near MW-4)			
Fraction	**Analyte (mg/kg)**	**Fe**	**Mn**
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	1110	12.3
0.1M NH2OH HCl	Reducible (Fe and Mn)	824	8.29
	Total Fe and Mn	1934	21
GSB-2 (13.5-15) (near MW-8)			
Fraction	**Analyte (mg/kg)**	**Fe**	**Mn**
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	67.1	9.98
0.1M NH2OH HCl	Reducible (Fe and Mn)	125	10.5
	Total Fe and Mn	192	20
GSB-2 (28.5-30) (near MW-8)			
Fraction	**Analyte (mg/kg)**	**Fe**	**Mn**
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	913	97.3
0.1M NH2OH HCl	Reducible (Fe and Mn)	903	81.8
	Total Fe and Mn	1817	179
GSB-3 (23.5-25) (near SDB-MW-2)			
Fraction	**Analyte (mg/kg)**	**Fe**	**Mn**
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	3.94	23.9
0.1M NH2OH HCl	Reducible (Fe and Mn)	382	2730
	Total Fe and Mn	386	2754
GSB-3 (28.5-30) (near SDB-MW-2)			
Fraction	**Analyte (mg/kg)**	**Fe**	**Mn**
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	4.23	24.6
0.1M NH2OH HCl	Reducible (Fe and Mn)	350	318
	Total Fe and Mn	354	343

Table 4. Hercules Ashland Site – Mineral Saturation Indices Calculated from Groundwater Compositions

	Saturation Indices									
Mineral	MW-1	MW-2	MW-3	MW-4	MW-4U	MW-5	MW-5U	MW-8U	MW-8D	SDB-MW2
Manganite (MnOOH)	-8.68	-9.03	-9.07	-8.88	-9.09	-8.94	-8.48	-8.77	-7.79	-7.74
Rhodochrosite ($MnCO_3$)	-1.53	-1.11	-0.81	-0.29	-0.41	-0.29	0.20	-0.18	-1.24	-1.30
Ferrihydrite ($Fe(OH)_3$	0.42	0.87	0.96	1.14	1.32	0.99	1.05	1.20	0.22	0.26
Siderite ($FeCO_3$)	-1.51	-0.33	0.14	0.73	0.91	0.54	0.60	0.55	-2.37	-2.27
Calcite ($CaCO_3$)	-1.71	-1.57	-0.80	-0.50	-0.56	-0.38	0.20	-0.17	-1.01	-0.78

Figure 1. Hercules Ashland Hopewell (Virginia) Site (provided by GES)



Attachment 1

Solid Phase Analytical Results

Applied Speciation and Consulting, LLC

July 1, 2011

APPLIED SPECIATION
AND CONSULTING, LLC

18804 Northcreek Parkway Bothell, WA, 98011
Tel: (425) 483-3300 Fax: (425) 483-9818
www.appliedspeciation.com

July 1, 2011

Kate Hall
GES
23 South 13th Street Suite 201
Richmond, VA 23219
(866) 222-7786 x3784

Project Name: Aqualon
Project Number: 1201555

Ms. Hall,

Attached is the revised report associated with six (6) solid samples submitted for cationic metals sequential extractions on April 26, 2011. The samples were received on April 27, 2011 in a sealed container at -50°C. Sequential extraction procedures for cationic metals conformed to the method presented by the European Community Bureau of Reference (BCR). Any analytical issues associated with the analysis are addressed in the following report.

The initial report referenced the incorrect digestion procedure for total elemental analysis (HNO3/H2O2). The correct digestion reference is aqua regia.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report Prepared for:

Kate Hall
GES
23 South 13th Street Suite 201
Richmond, VA 23219

Project Name: Aqualon
Project Number: 1201555

July 1, 2011

1. Sample Reception

Six (6) core samples were submitted for cationic metals sequential extractions on April 26, 2011. All samples were received in acceptable condition on April 27, 2007 in a sealed container at -50°C.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Immediately upon reception all samples were designated discrete sample identifiers and were stored in a cryofreezer maintained at a temperature of -80°C until sequential extractions could be performed.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Cationic Trace Metals Sequential Extraction by the European Community Bureau of Reference (BCR). A four stage sequential extraction method, presented by the European Community Bureau of Reference (BCR), was employed for correlation between Fe, Mn, and different substrate properties.

Approximately 1g of dried, homogenized soil was transferred to a 50mL polyethylene vial and 40mL of 0.11 M acetic acid (pH=2.85) was added to each vial. Each vial was capped and shaken on an inverted shaker for 16 hours at room temp at 30 RPM.

The samples were removed from the shaker and centrifuged for 20 minutes at 3000RPM. After the supernatant was decanted into a separate vial for trace metals analysis and labeled “Fraction 1” a total of 20mL of ultra pure deionized water was

added to each vial. The vials were shaken vigorously and centrifuged for 20 minutes at 3000RPM. The supernatant was decanted and discarded.

Exactly Add 40mL of 0.1 M $NH_2OH.HCl$ (pH=2.0) was added to each vial. Each vial was capped and shaken on an inverted shaker for 16 hours at room temp at 30 RPM.

The samples were removed from the shaker and centrifuged for 20 minutes at 3000RPM. After the supernatant was decanted into a separate vial for trace metals analysis and labeled "Fraction 2" a total of 20mL of ultra pure deionized water was added to each vial. The vials were shaken vigorously and centrifuged for 20 minutes at 3000RPM. The supernatant was decanted and discarded.

Exactly 10mL of 30% (v/v) H_2O_2 was slowly added to each vial. Set tubes aside for one hour (swirl the tubes every 15 min). The vials were then refluxed in a Hotblock digestion apparatus for 60 min at 85°C. The reflux cones were then removed and the samples were heated until near dryness (~3mL of solution remaining).

After the addition of 10mL of H_2O_2 each vial was refluxed at 85°C for 60 minutes. The reflux cones were then removed and the samples were heated until near dryness (~3mL of solution remaining). The vials were then brought to volume (50mL) with 1.0 M ammonium acetate (pH=2). Each vial was capped and shaken on an inverted shaker for 16 hours at room temp at 30 RPM.

The samples were removed from the shaker and centrifuged for 20 minutes at 3000RPM. After the supernatant was decanted into a separate vial for trace metals analysis and labeled "Fraction 3" a total of 20mL of ultra pure deionized water was added to each vial. The vials were shaken vigorously and centrifuged for 20 minutes at 3000RPM. The supernatant was decanted and discarded.

Exactly 7mL concentrated HCl and 2.3mL concentrated HNO3 was added to each vial. The vials were then refluxed in a Hotblock digestion apparatus for 2 hours at 100°C. The samples were then allowed to cool to room temperature and were brought to volume (50mL) with ultra pure deionized water.

All extraction fractions were then analyzed for Fe and Mn by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

Trace Metals Quantification by ICP-DRC-MS All samples for trace metals quantification were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Discussion

Cationic Trace Metals Sequential Extraction by the European Community Bureau of Reference (BCR).

A mass balance was not attained for Mn associated with the sample identified as GSB-2 (13.5-15). All extraction and digestion fractions were reanalyzed for Mn which confirmed the original results. The discrepancy between the sum of extractions and the total Mn concentrations suggest that the distribution of Mn in the core material was not homogenous. All preparation blanks also suggest that the encountered discrepancy was attributed to the sample matrix and not the applied preparatory or analytical procedures.

Discrepancies between the sum of extraction fractions and the total elemental analyses indicate heterogeneity within the sample matrix. External sample manipulation was minimized prior to sample preparation to reduce the probability of oxidation which could bias the results.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

Russell Gerads
Vice President
Applied Speciation and Consulting, LLC

BCR Sequential Extraction Results for GES
Contact: Kate Hall
Project Number: 1201555

Date: July 1, 2011
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Sample Results

GSB-1 (25-26.5)

Fraction	Analyte (mg/kg)	Fe	Mn
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	1600	77.7
0.1M NH2OH HCl	Reducible (Fe and Mn)	1570	88.4
8.8M H2O2 + 1.0M CH3COONH4	Oxidizable (Organic)	4.71	24.5
Aqua Regia	Residual non-silicate bound	11100	31.5
Aqua Regia	Total (Original sample)	16300	151
SEP % Recovery		88%	147%

GSB-1 (40-41.5)

Fraction	Analyte (mg/kg)	Fe	Mn
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	1130	12.4
0.1M NH2OH HCl	Reducible (Fe and Mn)	834	8.37
8.8M H2O2 + 1.0M CH3COONH4	Oxidizable (Organic)	10.8	7.06
Aqua Regia	Residual non-silicate bound	8160	43.1
Aqua Regia	Total (Original sample)	15800	85.6
SEP % Recovery		64%	83%

GSB-1 (40-41.5) MD

Fraction	Analyte (mg/kg)	Fe	Mn
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	1110	12.3
0.1M NH2OH HCl	Reducible (Fe and Mn)	824	8.29
8.8M H2O2 + 1.0M CH3COONH4	Oxidizable (Organic)	12.3	7.43
Aqua Regia	Residual non-silicate bound	8740	45.2
Aqua Regia	Total (Original sample)	15700	84.4
SEP % Recovery		68%	87%

GSB-2 (13.5-15)

Fraction	Analyte (mg/kg)	Fe	Mn
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	67.1	9.98
0.1M NH2OH HCl	Reducible (Fe and Mn)	125	10.5
8.8M H2O2 + 1.0M CH3COONH4	Oxidizable (Organic)	6.96	14.7
Aqua Regia	Residual non-silicate bound	14400	73.4
Aqua Regia	Total (Original sample)	20100	1280
SEP % Recovery		73%	8%

All results are reported on a dry weight basis

BCR Sequential Extraction Results for GES
Contact: Kate Hall
Project Number: 1201555

Date: July 1, 2011
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Sample Results

GSB-2 (28.5-30)

Fraction	Analyte (mg/kg)	Fe	Mn
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	913	97.3
0.1M NH2OH HCl	Reducible (Fe and Mn)	903	81.8
8.8M H2O2 + 1.0M CH3COONH4	Oxidizable (Organic)	14.3	25.7
Aqua Regia	Residual non-silicate bound	10900	44.8
Aqua Regia	Total (Original sample)	22300	272
SEP % Recovery		57%	92%

GSB-3 (23.5-25)

Fraction	Analyte (mg/kg)	Fe	Mn
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	3.94	23.9
0.1M NH2OH HCl	Reducible (Fe and Mn)	382	2730
8.8M H2O2 + 1.0M CH3COONH4	Oxidizable (Organic)	5.80	394
Aqua Regia	Residual non-silicate bound	28400	156
Aqua Regia	Total (Original sample)	33900	2780
SEP % Recovery		85%	119%

GSB-3 (28.5-30)

Fraction	Analyte (mg/kg)	Fe	Mn
0.11M CH3COOH	Exchangeable; Water and Acid Soluble (Carbonates)	4.23	24.6
0.1M NH2OH HCl	Reducible (Fe and Mn)	350	318
8.8M H2O2 + 1.0M CH3COONH4	Oxidizable (Organic)	4.11	86.6
Aqua Regia	Residual non-silicate bound	24200	119
Aqua Regia	Total (Original sample)	24200	451
SEP % Recovery		101%	122%

All results are reported on a dry weight basis

ATTACHMENT H

2011 SITE-WIDE GROUNDWATER SAMPLING EVENT AND GEOCHEMICAL EVALUATION
LABORATORY ANALYTICAL DATA
(ON CD)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-67790-1
TestAmerica Sample Delivery Group: HAQ034
Client Project/Site: Aqualon Hopewell - GW CA APR 2011
Revision: 1

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Bruce Hough

Authorized for release by:
06/06/2011 02:00:41 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Erin Wright

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Job ID: 680-67790-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-67790-1 / SDG HAQ034 (Revised)

Receipt
Samples were collected on April 26, 2011 and submitted for overnight delivery to the laboratory. Due to a shipping delay from the overnight carrier, samples were delivered to the laboratory on the second day following collection on April 28, 2011. As such, holding times for nitrate and nitrite analysis were compromised. The client was notified accordingly and instructed the laboratory to proceed with all analyses.

One amber glass liter was received broken for client sample MW-8U.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: Client sample MW-8U (680-67790-8) was reanalyzed due to target analytes exceeding the calibration range in the original analysis. In the reanalysis, target concentrations in the dilution do not correlate well to the undiluted run. There were no uncompromised vials remaining for additional re-analysis, and analytical hold time was expired. Both sets of data are reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C LL: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 201675 exceeded control limits for the following analyte(s): hexachlorophene and 3,3 dimethylbenzidine. These analytes have been identified as a poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method(s) 8270C LL: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 201675 had 3 analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 201675 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C LL: The method blank for batch 201675 contained Acetophenone and 1,4-Dichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. Samples have been flagged accordingly.

No other analytical or quality issues were noted.

GC VOA
Method(s) 8015B: Manual integration was performed on the following sample(s): CCVIS 680-201557/19 and for calibrants in the initial calibration.

No other analytical or quality issues were noted.

Metals
Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-201734 were outside control limits for beryllium, magnesium, manganese, sodium, and antimony. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6020: Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-201734 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6020: The method blank for batch 201734 contained Iron and Zinc above the method detection limit. This target analyte

Job ID: 680-67790-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. Samples have been flagged accordingly.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 353.2: The following sample(s) was received with greater than 50% of holding time expired: MW-3 (680-67790-10), MW-6 (680-67790-9), MW-8D (680-67790-7), MW-8U (680-67790-8), SDB-MW-1 (680-67790-11), SDB-MW-2 (680-67790-12), SDB-MW-3 (680-67790-13). As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

No other analytical or quality issues were noted.

Comments

The report was reissued on June 6, 2011 in order to correct QC reporting for Allyl Alcohol in the Method 8015 analyses.

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-67790-7	MW-8D	Water	04/26/11 09:25	04/28/11 10:03
680-67790-8	MW-8U	Water	04/26/11 11:20	04/28/11 10:03
680-67790-9	MW-6	Water	04/26/11 11:45	04/28/11 10:03
680-67790-10	MW-3	Water	04/26/11 15:55	04/28/11 10:03
680-67790-11	SDB-MW-1	Water	04/26/11 14:25	04/28/11 10:03
680-67790-12	SDB-MW-2	Water	04/26/11 15:20	04/28/11 10:03
680-67790-13	SDB-MW-3	Water	04/26/11 16:10	04/28/11 10:03
680-67790-14	Trip Blank 1	Water	04/26/11 00:00	04/28/11 10:03

Method Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL SAV
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	TAL SAV
6020	Metals (ICP/MS)	SW846	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
9060	Organic Carbon, Total (TOC)	SW846	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 21:39	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 21:39	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 21:39	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 21:39	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 21:39	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 21:39	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 21:39	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 21:39	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 21:39	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 21:39	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 21:39	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 21:39	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 21:39	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 21:39	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 21:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 21:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 21:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 21:39	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 21:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 21:39	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 21:39	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 21:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 21:39	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 21:39	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 21:39	1
Isobutyl alcohol	40	U	40	11	ug/L			05/02/11 21:39	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 21:39	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 21:39	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 21:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 21:39	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 21:39	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 21:39	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 21:39	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 21:39	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 21:39	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 21:39	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 21:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 21:39	1

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 21:39	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 21:39	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 21:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 21:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 21:39	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 21:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 21:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 21:39	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 21:39	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 21:39	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 21:39	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 21:39	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 21:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 21:39*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/02/11 21:39*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/02/11 21:39*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/02/11 21:39*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Acetophenone	**0.11**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 14:27	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 14:27	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 14:27	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,4-Dichlorobenzene	**0.15**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dichlorophenol	0.95	U *	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 14:27	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 14:27	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 14:27	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 14:27	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/09/11 14:27	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 14:27	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 14:27	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 14:27	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 14:27	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:27	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 14:27	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:27	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*29*	*T J*	*ug/L*		*3.43*		*05/03/11 14:47*	*05/09/11 14:27*	*1*
Unknown	*1.8*	*T J*	*ug/L*		*3.51*		*05/03/11 14:47*	*05/09/11 14:27*	*1*
Unknown	*1.5*	*T J*	*ug/L*		*3.65*		*05/03/11 14:47*	*05/09/11 14:27*	*1*

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	27	T J	ug/L		3.98		05/03/11 14:47	05/09/11 14:27	1
Unknown	5.5	T J	ug/L		5.03		05/03/11 14:47	05/09/11 14:27	1
Unknown	1.5	T J	ug/L		8.65		05/03/11 14:47	05/09/11 14:27	1
Unknown	1.5	T J	ug/L		12.17		05/03/11 14:47	05/09/11 14:27	1
Octadecanoic acid, butyl ester	3.3	T J N	ug/L		13.22	123-95-5	05/03/11 14:47	05/09/11 14:27	1
(Carbethoxyethylidine)triphenylphosphora	19	T J N	ug/L		14.00	5717-37-3	05/03/11 14:47	05/09/11 14:27	1
Unknown	2.5	T J	ug/L		14.05		05/03/11 14:47	05/09/11 14:27	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		34 - 130	05/03/11 14:47	05/09/11 14:27	1
2-Fluorophenol	60		25 - 130	05/03/11 14:47	05/09/11 14:27	1
Nitrobenzene-d5	65		32 - 130	05/03/11 14:47	05/09/11 14:27	1
Phenol-d5	60		27 - 130	05/03/11 14:47	05/09/11 14:27	1
Terphenyl-d14	92		36 - 130	05/03/11 14:47	05/09/11 14:27	1
2,4,6-Tribromophenol	75		30 - 130	05/03/11 14:47	05/09/11 14:27	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 20:47	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 20:47	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 20:47	1
Methanol	1000	U	1000	830	ug/L			04/29/11 20:47	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**700**		100	50	ug/L		05/03/11 12:19	05/04/11 14:16	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:16	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:16	1
Barium	**77**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:16	1
Beryllium	**0.18**	**J**	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:16	1
Cadmium	**2.9**		0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:16	1
Calcium	**38000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:16	1
Chromium	**3.3**	**J**	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:16	1
Cobalt	**0.29**	**J**	0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:16	1
Copper	**5.3**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:16	1
Iron	**1100**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:16	1
Lead	**0.90**	**J**	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:16	1
Magnesium	**3300**		250	100	ug/L		05/03/11 12:19	05/04/11 17:14	1
Manganese	**250**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:16	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:14	1
Nickel	**3.2**	**J**	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:16	1
Potassium	**5300**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:16	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:16	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:16	1
Sodium	**14000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:16	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:16	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:16	1
Zinc	**23**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:14	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3600**		1000	180	ug/L			05/11/11 15:04	1
Nitrogen, Kjeldahl	**220**		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	**97**	**H**	50	10	ug/L			04/28/11 16:53	1
Nitrite as N	50	U H	50	10	ug/L			04/28/11 16:53	1
Sulfate	**4800**	**J**	5000	2500	ug/L			05/11/11 12:05	1
Total Organic Carbon	**610**	**J**	1000	500	ug/L			05/13/11 11:06	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/03/11 23:46	20
Acetonitrile	800	U	800	200	ug/L			05/03/11 23:46	20
Acrolein	400	U	400	150	ug/L			05/03/11 23:46	20
Acrylonitrile	400	U	400	140	ug/L			05/03/11 23:46	20
Allyl chloride	20	U	20	4.0	ug/L			05/03/11 23:46	20
Benzene	20	U	20	5.0	ug/L			05/03/11 23:46	20
Benzyl chloride	20	U	20	20	ug/L			05/03/11 23:46	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
Bromoform	20	U	20	10	ug/L			05/03/11 23:46	20
Bromomethane	20	U	20	16	ug/L			05/03/11 23:46	20
2-Butanone	200	U	200	20	ug/L			05/03/11 23:46	20
Carbon disulfide	40	U	40	12	ug/L			05/03/11 23:46	20
Carbon tetrachloride	20	U	20	10	ug/L			05/03/11 23:46	20
Chlorobenzene	20	U	20	5.0	ug/L			05/03/11 23:46	20
Chloroethane	20	U	20	20	ug/L			05/03/11 23:46	20
Chloroform	20	U	20	2.8	ug/L			05/03/11 23:46	20
Chloromethane	20	U	20	6.6	ug/L			05/03/11 23:46	20
Chloroprene	20	U	20	6.0	ug/L			05/03/11 23:46	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/03/11 23:46	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/03/11 23:46	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/03/11 23:46	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/03/11 23:46	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
Dibromomethane	20	U	20	4.0	ug/L			05/03/11 23:46	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/03/11 23:46	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/03/11 23:46	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/03/11 23:46	20
Diethyl ether	**3800**	**E**	200	20	ug/L			05/03/11 23:46	20
Ethylbenzene	20	U	20	2.2	ug/L			05/03/11 23:46	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/03/11 23:46	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/03/11 23:46	20
2-Hexanone	200	U	200	20	ug/L			05/03/11 23:46	20
Iodomethane	100	U	100	20	ug/L			05/03/11 23:46	20
Isobutyl alcohol	800	U	800	220	ug/L			05/03/11 23:46	20
Methacrylonitrile	400	U	400	66	ug/L			05/03/11 23:46	20
Methylene Chloride	100	U	100	20	ug/L			05/03/11 23:46	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/03/11 23:46	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/03/11 23:46	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/03/11 23:46	20
n-Heptane	20	U	20	8.4	ug/L			05/03/11 23:46	20
Pentachloroethane	100	U	100	24	ug/L			05/03/11 23:46	20
Propionitrile	400	U	400	92	ug/L			05/03/11 23:46	20
Propylene oxide	4000	U	4000	4000	ug/L			05/03/11 23:46	20
Styrene	20	U	20	2.2	ug/L			05/03/11 23:46	20
t-Butanol	**1800**		100	52	ug/L			05/03/11 23:46	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/03/11 23:46	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/03/11 23:46	20

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	20	U	20	3.0	ug/L			05/03/11 23:46	20
Toluene	20	U	20	6.6	ug/L			05/03/11 23:46	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/03/11 23:46	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/03/11 23:46	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/03/11 23:46	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/03/11 23:46	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/03/11 23:46	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/03/11 23:46	20
Trichloroethylene	20	U	20	2.6	ug/L			05/03/11 23:46	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/03/11 23:46	20
Vinyl acetate	40	U	40	5.6	ug/L			05/03/11 23:46	20
Vinyl chloride	20	U	20	3.6	ug/L			05/03/11 23:46	20
Xylenes, Total	40	U	40	4.0	ug/L			05/03/11 23:46	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 23:46*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/03/11 23:46*	*20*
Dibromofluoromethane	*99*		*70 - 130*		*05/03/11 23:46*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/03/11 23:46*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	500	ug/L			05/02/11 22:08	100
Acetonitrile	4000	U	4000	1000	ug/L			05/02/11 22:08	100
Acrolein	2000	U	2000	740	ug/L			05/02/11 22:08	100
Acrylonitrile	2000	U	2000	720	ug/L			05/02/11 22:08	100
Allyl chloride	100	U	100	20	ug/L			05/02/11 22:08	100
Benzene	100	U	100	25	ug/L			05/02/11 22:08	100
Benzyl chloride	100	U	100	100	ug/L			05/02/11 22:08	100
Bromodichloromethane	100	U	100	25	ug/L			05/02/11 22:08	100
Bromoform	100	U	100	50	ug/L			05/02/11 22:08	100
Bromomethane	100	U	100	80	ug/L			05/02/11 22:08	100
2-Butanone	1000	U	1000	100	ug/L			05/02/11 22:08	100
Carbon disulfide	200	U	200	60	ug/L			05/02/11 22:08	100
Carbon tetrachloride	100	U	100	50	ug/L			05/02/11 22:08	100
Chlorobenzene	100	U	100	25	ug/L			05/02/11 22:08	100
Chloroethane	100	U	100	100	ug/L			05/02/11 22:08	100
Chloroform	100	U	100	14	ug/L			05/02/11 22:08	100
Chloromethane	100	U	100	33	ug/L			05/02/11 22:08	100
Chloroprene	100	U	100	30	ug/L			05/02/11 22:08	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			05/02/11 22:08	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			05/02/11 22:08	100
Dibromochloromethane	100	U	100	10	ug/L			05/02/11 22:08	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			05/02/11 22:08	100
1,2-Dibromoethane	100	U	100	25	ug/L			05/02/11 22:08	100
Dibromomethane	100	U	100	20	ug/L			05/02/11 22:08	100
Dichlorodifluoromethane	100	U	100	25	ug/L			05/02/11 22:08	100
1,1-Dichloroethane	100	U	100	25	ug/L			05/02/11 22:08	100

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	100	U	100	10	ug/L			05/02/11 22:08	100
1,1-Dichloroethene	100	U	100	11	ug/L			05/02/11 22:08	100
1,2-Dichloropropane	100	U	100	13	ug/L			05/02/11 22:08	100
Diethyl ether	**1800**	**D**	1000	100	ug/L			05/02/11 22:08	100
Ethylbenzene	100	U	100	11	ug/L			05/02/11 22:08	100
Ethylene oxide	20000	U	20000	20000	ug/L			05/02/11 22:08	100
Ethyl methacrylate	100	U	100	25	ug/L			05/02/11 22:08	100
2-Hexanone	1000	U	1000	100	ug/L			05/02/11 22:08	100
Iodomethane	500	U	500	100	ug/L			05/02/11 22:08	100
Isobutyl alcohol	4000	U	4000	1100	ug/L			05/02/11 22:08	100
Methacrylonitrile	2000	U	2000	330	ug/L			05/02/11 22:08	100
Methylene Chloride	500	U	500	100	ug/L			05/02/11 22:08	100
Methyl methacrylate	100	U	100	48	ug/L			05/02/11 22:08	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	ug/L			05/02/11 22:08	100
Methyl tert-butyl ether	1000	U	1000	20	ug/L			05/02/11 22:08	100
n-Heptane	100	U	100	42	ug/L			05/02/11 22:08	100
Pentachloroethane	500	U	500	120	ug/L			05/02/11 22:08	100
Propionitrile	2000	U	2000	460	ug/L			05/02/11 22:08	100
Propylene oxide	20000	U	20000	20000	ug/L			05/02/11 22:08	100
Styrene	100	U	100	11	ug/L			05/02/11 22:08	100
t-Butanol	**500**	**D**	500	260	ug/L			05/02/11 22:08	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			05/02/11 22:08	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			05/02/11 22:08	100
Tetrachloroethene	100	U	100	15	ug/L			05/02/11 22:08	100
Toluene	100	U	100	33	ug/L			05/02/11 22:08	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			05/02/11 22:08	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			05/02/11 22:08	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			05/02/11 22:08	100
1,2,3-Trichlorobenzene	100	U	100	35	ug/L			05/02/11 22:08	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			05/02/11 22:08	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			05/02/11 22:08	100
Trichloroethylene	100	U	100	13	ug/L			05/02/11 22:08	100
Trichlorofluoromethane	100	U	100	25	ug/L			05/02/11 22:08	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			05/02/11 22:08	100
Vinyl acetate	200	U	200	28	ug/L			05/02/11 22:08	100
Vinyl chloride	100	U	100	18	ug/L			05/02/11 22:08	100
Xylenes, Total	200	U	200	20	ug/L			05/02/11 22:08	100

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 22:08*	*100*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/02/11 22:08*	*100*
Dibromofluoromethane	*100*		*70 - 130*		*05/02/11 22:08*	*100*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/02/11 22:08*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 14:54	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 14:54	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Butyl benzyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Chlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 14:54	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,4-Dichlorobenzene	**0.12**	**J B**	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dichlorophenol	0.96	U *	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 14:54	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 14:54	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 14:54	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dinitrotoluene	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,4-Dioxane	**8.6**		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 14:54	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 14:54	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 14:54	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 14:54	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 14:54	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:54	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pronamide	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 14:54	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:54	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*21*	*T A J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown	*4.8*	*T J*	*ug/L*		*5.71*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown	*320*	*T J*	*ug/L*		*6.13*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown	*58*	*T J*	*ug/L*		*7.94*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown	*34*	*T J*	*ug/L*		*9.55*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown Organic Acid	*7.4*	*T J*	*ug/L*		*10.11*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown	*6.3*	*T J*	*ug/L*		*10.18*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown	*24*	*T J*	*ug/L*		*10.99*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Unknown	*8.2*	*T J*	*ug/L*		*12.27*		*05/03/11 14:47*	*05/09/11 14:54*	*1*
Acetic acid, (triphenylphosphoranylidene	*19*	*T J N*	*ug/L*		*14.01*	*2605-67-6*	*05/03/11 14:47*	*05/09/11 14:54*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
2-Fluorophenol	*50*		*25 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
Nitrobenzene-d5	*58*		*32 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
Phenol-d5	*28*		*27 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
Terphenyl-d14	*70*		*36 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
2,4,6-Tribromophenol	*74*		*30 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 21:11	1
Ethanol	**1400**		1000	330	ug/L			04/29/11 21:11	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 21:11	1
Methanol	1000	U	1000	830	ug/L			04/29/11 21:11	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4700**		100	50	ug/L		05/03/11 12:19	05/04/11 14:20	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:20	1
Arsenic	**15**		2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:20	1
Barium	**340**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:20	1
Beryllium	**0.23**	**J**	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:20	1
Cadmium	**0.28**	**J**	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:20	1
Calcium	**190000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:20	1
Chromium	**29**		5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:20	1
Cobalt	**20**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:20	1
Copper	**6.3**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:20	1
Iron	**36000**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:20	1
Lead	**2.2**		1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:20	1
Magnesium	**45000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:21	1
Manganese	**2400**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:20	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:21	1
Nickel	**19**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:20	1
Potassium	**24000**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:20	1
Selenium	**1.5**	**J**	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:20	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:20	1
Sodium	**530000**		1000	340	ug/L		05/03/11 12:19	05/05/11 11:48	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:20	1
Vanadium	**14**		10	3.2	ug/L		05/03/11 12:19	05/04/11 14:20	1
Zinc	**27**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**480000**		5000	900	ug/L			05/11/11 15:35	5
Nitrogen, Kjeldahl	**11000**		1000	750	ug/L		05/11/11 19:55	05/12/11 16:27	5
Nitrate as N	**18**	**J H**	50	10	ug/L			04/28/11 16:54	1
Nitrite as N	50	U H	50	10	ug/L			04/28/11 16:54	1
Sulfate	**340000**		50000	25000	ug/L			05/11/11 12:40	10
Total Organic Carbon	**11000**		1000	500	ug/L			05/13/11 11:23	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/02/11 22:37	20
Acetonitrile	800	U	800	200	ug/L			05/02/11 22:37	20
Acrolein	400	U	400	150	ug/L			05/02/11 22:37	20
Acrylonitrile	400	U	400	140	ug/L			05/02/11 22:37	20
Allyl chloride	20	U	20	4.0	ug/L			05/02/11 22:37	20
Benzene	20	U	20	5.0	ug/L			05/02/11 22:37	20
Benzyl chloride	20	U	20	20	ug/L			05/02/11 22:37	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
Bromoform	20	U	20	10	ug/L			05/02/11 22:37	20
Bromomethane	20	U	20	16	ug/L			05/02/11 22:37	20
2-Butanone	200	U	200	20	ug/L			05/02/11 22:37	20
Carbon disulfide	40	U	40	12	ug/L			05/02/11 22:37	20
Carbon tetrachloride	20	U	20	10	ug/L			05/02/11 22:37	20
Chlorobenzene	20	U	20	5.0	ug/L			05/02/11 22:37	20
Chloroethane	20	U	20	20	ug/L			05/02/11 22:37	20
Chloroform	20	U	20	2.8	ug/L			05/02/11 22:37	20
Chloromethane	20	U	20	6.6	ug/L			05/02/11 22:37	20
Chloroprene	20	U	20	6.0	ug/L			05/02/11 22:37	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/02/11 22:37	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/02/11 22:37	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/02/11 22:37	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/02/11 22:37	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
Dibromomethane	20	U	20	4.0	ug/L			05/02/11 22:37	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/02/11 22:37	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/02/11 22:37	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/02/11 22:37	20
Diethyl ether	**1300**		200	20	ug/L			05/02/11 22:37	20
Ethylbenzene	20	U	20	2.2	ug/L			05/02/11 22:37	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/02/11 22:37	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/02/11 22:37	20
2-Hexanone	200	U	200	20	ug/L			05/02/11 22:37	20
Iodomethane	100	U	100	20	ug/L			05/02/11 22:37	20
Isobutyl alcohol	800	U	800	220	ug/L			05/02/11 22:37	20
Methacrylonitrile	400	U	400	66	ug/L			05/02/11 22:37	20
Methylene Chloride	100	U	100	20	ug/L			05/02/11 22:37	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/02/11 22:37	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/02/11 22:37	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/02/11 22:37	20
n-Heptane	20	U	20	8.4	ug/L			05/02/11 22:37	20
Pentachloroethane	100	U	100	24	ug/L			05/02/11 22:37	20
Propionitrile	400	U	400	92	ug/L			05/02/11 22:37	20
Propylene oxide	4000	U	4000	4000	ug/L			05/02/11 22:37	20
Styrene	20	U	20	2.2	ug/L			05/02/11 22:37	20
t-Butanol	**1600**		100	52	ug/L			05/02/11 22:37	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/02/11 22:37	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/02/11 22:37	20

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	20	U	20	3.0	ug/L			05/02/11 22:37	20
Toluene	20	U	20	6.6	ug/L			05/02/11 22:37	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/02/11 22:37	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/02/11 22:37	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/02/11 22:37	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/02/11 22:37	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/02/11 22:37	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/02/11 22:37	20
Trichloroethylene	20	U	20	2.6	ug/L			05/02/11 22:37	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/02/11 22:37	20
Vinyl acetate	40	U	40	5.6	ug/L			05/02/11 22:37	20
Vinyl chloride	20	U	20	3.6	ug/L			05/02/11 22:37	20
Xylenes, Total	40	U	40	4.0	ug/L			05/02/11 22:37	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 22:37*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/02/11 22:37*	*20*
Dibromofluoromethane	*99*		*70 - 130*		*05/02/11 22:37*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/02/11 22:37*	*20*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Acenaphthylene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Acetophenone	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Acetylaminofluorene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
alpha,alpha-Dimethyl phenethylamine	11	U	11	3.7	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Aminobiphenyl	5.5	U	5.5	0.34	ug/L		05/03/11 14:47	05/09/11 15:21	1
Aniline	2.2	U	2.2	1.1	ug/L		05/03/11 14:47	05/09/11 15:21	1
Anthracene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Aramite, Total	1.6	U	1.6	0.12	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[a]anthracene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[a]pyrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[b]fluoranthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[k]fluoranthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzyl alcohol	1.1	U	1.1	0.15	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,1'-Biphenyl	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	0.70	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Bromophenyl phenyl ether	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
Butyl benzyl phthalate	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Chloroaniline	2.2	U	2.2	0.40	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Chloro-3-methylphenol	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Chloronaphthalene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Chlorophenol	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Chlorophenyl phenyl ether	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.22	U	0.22	0.049	ug/L		05/03/11 14:47	05/09/11 15:21	1
Diallate	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dibenzofuran	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,2-Dichlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,3-Dichlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,4-Dichlorobenzene	**0.13**	**J B**	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
3,3'-Dichlorobenzidine	22	U	22	2.2	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dichlorophenol	1.1	U *	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,6-Dichlorophenol	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Diethyl phthalate	1.1	U	1.1	0.12	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dimethoate	2.2	U	2.2	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
7,12-Dimethylbenz(a)anthracene	1.1	U	1.1	0.22	ug/L		05/03/11 14:47	05/09/11 15:21	1
3,3'-Dimethylbenzidine	22	U *	22	5.5	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dimethylphenol	2.2	U *	2.2	0.76	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Di-n-butyl phthalate	1.1	U	1.1	0.43	ug/L		05/03/11 14:47	05/09/11 15:21	1
4,6-Dinitro-2-methylphenol	5.5	U	5.5	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dinitrophenol	11	U	11	1.2	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dinitrotoluene	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,6-Dinitrotoluene	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
Di-n-octyl phthalate	1.1	U	1.1	0.19	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,4-Dioxane	**2.7**		2.2	0.34	ug/L		05/03/11 14:47	05/09/11 15:21	1
Disulfoton	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Ethyl methanesulfonate	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Ethyl Parathion	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Famphur	1.1	U	1.1	0.18	ug/L		05/03/11 14:47	05/09/11 15:21	1
Fluoranthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Fluorene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorobutadiene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorocyclopentadiene	2.2	U	2.2	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachloroethane	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorophene	550	U *	550	27	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachloropropene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Isophorone	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Isosafrole	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
m-Dinitrobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Methapyrilene	220	U	220	1.4	ug/L		05/03/11 14:47	05/09/11 15:21	1
3-Methylcholanthrene	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Methyl methanesulfonate	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Methylnaphthalene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Methyl parathion	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Methylphenol	2.2	U	2.2	0.81	ug/L		05/03/11 14:47	05/09/11 15:21	1
3 & 4 Methylphenol	2.2	U *	2.2	0.73	ug/L		05/03/11 14:47	05/09/11 15:21	1
1-Naphthalenamine	5.5	U	5.5	1.4	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Naphthalenamine	5.5	U	5.5	1.4	ug/L		05/03/11 14:47	05/09/11 15:21	1
Naphthalene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Nitroaniline	1.1	U	1.1	0.18	ug/L		05/03/11 14:47	05/09/11 15:21	1
3-Nitroaniline	5.5	U	5.5	0.18	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Nitroaniline	5.5	U	5.5	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Nitrobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
5-Nitro-o-toluidine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Nitrophenol	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Nitrophenol	5.5	U	5.5	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Nitroquinoline-1-oxide	2.2	U	2.2	1.2	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodiethylamine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodimethylamine	1.1	U	1.1	0.27	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodi-n-butylamine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.41	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosomethylethylamine	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosomorpholine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosopiperidine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosopyrrolidine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
o,o',o''-Triethylphosphorothioate	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
o-Toluidine	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,2'-oxybis[1-chloropropane]	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
p-Dimethylamino azobenzene	5.5	U	5.5	0.16	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pentachlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pentachloronitrobenzene	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pentachlorophenol	5.5	U	5.5	0.44	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenacetin	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenanthrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenol	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenyl ether	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phorate	1.1	U	1.1	0.22	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Picoline	2.2	U	2.2	0.16	ug/L		05/03/11 14:47	05/09/11 15:21	1
p-Phenylene diamine	220	U	220	18	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pronamide	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pyrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pyridine	5.5	U	5.5	0.80	ug/L		05/03/11 14:47	05/09/11 15:21	1
Safrole, Total	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-sec-Butyl-4,6-dinitrophenol	2.2	U	2.2	0.16	ug/L		05/03/11 14:47	05/09/11 15:21	1
Sulfotepp	1.1	U	1.1	0.15	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,2,4,5-Tetrachlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,3,4,6-Tetrachlorophenol	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Thionazin	1.1	U	1.1	0.22	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4,5-Trichlorophenol	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4,6-Trichlorophenol	1.1	U	1.1	0.19	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,3,5-Trinitrobenzene	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*5.76*		*05/03/11 14:47*	*05/09/11 15:21*	*1*
Unknown	*69*	*T J*	*ug/L*		*6.13*		*05/03/11 14:47*	*05/09/11 15:21*	*1*
Unknown	*40*	*T J*	*ug/L*		*7.95*		*05/03/11 14:47*	*05/09/11 15:21*	*1*

Client Sample ID: MW-6

Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	30	T J	ug/L		9.56		05/03/11 14:47	05/09/11 15:21	1
Unknown Organic Acid	22	T J	ug/L		10.13		05/03/11 14:47	05/09/11 15:21	1
Unknown	19	T J	ug/L		10.20		05/03/11 14:47	05/09/11 15:21	1
Unknown	31	T J	ug/L		10.99		05/03/11 14:47	05/09/11 15:21	1
Unknown	10	T J	ug/L		11.17		05/03/11 14:47	05/09/11 15:21	1
Unknown	17	T J	ug/L		12.27		05/03/11 14:47	05/09/11 15:21	1
(Carbethoxyethylidine)triphenylphosphora	16	T J N	ug/L		14.02	5717-37-3	05/03/11 14:47	05/09/11 15:21	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		34 - 130	05/03/11 14:47	05/09/11 15:21	1
2-Fluorophenol	61		25 - 130	05/03/11 14:47	05/09/11 15:21	1
Nitrobenzene-d5	68		32 - 130	05/03/11 14:47	05/09/11 15:21	1
Phenol-d5	31		27 - 130	05/03/11 14:47	05/09/11 15:21	1
Terphenyl-d14	69		36 - 130	05/03/11 14:47	05/09/11 15:21	1
2,4,6-Tribromophenol	92		30 - 130	05/03/11 14:47	05/09/11 15:21	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 21:34	1
Ethanol	**1300**		1000	330	ug/L			04/29/11 21:34	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 21:34	1
Methanol	1000	U	1000	830	ug/L			04/29/11 21:34	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**820**		100	50	ug/L		05/03/11 12:19	05/04/11 14:24	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:24	1
Arsenic	**2.1**	**J**	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:24	1
Barium	**480**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:24	1
Beryllium	**0.34**	**J**	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:24	1
Cadmium	**0.44**	**J**	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:24	1
Calcium	**230000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:24	1
Chromium	**4.8**	**J**	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:24	1
Cobalt	**32**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:24	1
Copper	**5.7**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:24	1
Iron	**56000**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:24	1
Lead	**1.7**		1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:24	1
Magnesium	**42000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:28	1
Manganese	**5900**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:24	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:28	1
Nickel	**8.3**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:24	1
Potassium	**4600**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:24	1
Selenium	**1.3**	**J**	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:24	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:24	1
Sodium	**540000**		1000	340	ug/L		05/03/11 12:19	05/05/11 11:52	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:24	1
Vanadium	**5.4**	**J**	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:24	1
Zinc	**22**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:28	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**610000**		10000	1800	ug/L			05/11/11 16:01	10
Nitrogen, Kjeldahl	**4800**		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	**30**	**J H**	50	10	ug/L			04/28/11 16:56	1
Nitrite as N	50	U H	50	10	ug/L			04/28/11 16:56	1
Sulfate	**140000**		25000	12000	ug/L			05/11/11 12:38	5
Total Organic Carbon	**22000**		1000	500	ug/L			05/13/11 11:41	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 14:32	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 14:32	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 14:32	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 14:32	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 14:32	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 14:32	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 14:32	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 14:32	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 14:32	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 14:32	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 14:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 14:32	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 14:32	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:32	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 14:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 14:32	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 14:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:32	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 14:32	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 14:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 14:32	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 14:32	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 14:32	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 14:32	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 14:32	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 14:32	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 14:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 14:32	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 14:32	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 14:32	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 14:32	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 14:32	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 14:32	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 14:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 14:32	1

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 14:32	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 14:32	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 14:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 14:32	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 14:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 14:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 14:32	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 14:32	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 14:32	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 14:32	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 14:32	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 14:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 14:32*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 14:32*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 14:32*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/03/11 14:32*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 15:48	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 15:48	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 15:48	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,4-Dichlorobenzene	**0.15**	**J B**	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dichlorophenol	0.96	U *	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 15:48	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 15:48	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 15:48	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 15:48	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,4-Dioxane	**2.1**		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 15:48	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 15:48	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 15:48	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 15:48	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 15:48	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 15:48	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 15:48	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 15:48	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 15:48	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 15:48	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*11*	*T A J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 15:48*	*1*
Unknown	*79*	*T J*	*ug/L*		*6.11*		*05/03/11 14:47*	*05/09/11 15:48*	*1*
Unknown	*5.3*	*T J*	*ug/L*		*7.49*		*05/03/11 14:47*	*05/09/11 15:48*	*1*

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8.7	T J	ug/L		7.81		05/03/11 14:47	05/09/11 15:48	1
Unknown	45	T J	ug/L		7.93		05/03/11 14:47	05/09/11 15:48	1
Unknown	41	T J	ug/L		9.54		05/03/11 14:47	05/09/11 15:48	1
Unknown	7.7	T J	ug/L		9.65		05/03/11 14:47	05/09/11 15:48	1
Unknown	18	T J	ug/L		10.98		05/03/11 14:47	05/09/11 15:48	1
Oleic Acid	5.6	T J N	ug/L		12.15	112-80-1	05/03/11 14:47	05/09/11 15:48	1
Unknown	20	T J	ug/L		14.00		05/03/11 14:47	05/09/11 15:48	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		34 - 130	05/03/11 14:47	05/09/11 15:48	1
2-Fluorophenol	57		25 - 130	05/03/11 14:47	05/09/11 15:48	1
Nitrobenzene-d5	62		32 - 130	05/03/11 14:47	05/09/11 15:48	1
Phenol-d5	58		27 - 130	05/03/11 14:47	05/09/11 15:48	1
Terphenyl-d14	65		36 - 130	05/03/11 14:47	05/09/11 15:48	1
2,4,6-Tribromophenol	80		30 - 130	05/03/11 14:47	05/09/11 15:48	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 21:58	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 21:58	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 21:58	1
Methanol	1000	U	1000	830	ug/L			04/29/11 21:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**250**		100	50	ug/L		05/03/11 12:19	05/04/11 14:27	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:27	1
Arsenic	**2.4**	**J**	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:27	1
Barium	**460**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:27	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:27	1
Cadmium	**0.23**	**J**	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:27	1
Calcium	**72000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:27	1
Chromium	**3.4**	**J**	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:27	1
Cobalt	**1.0**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:27	1
Copper	**1.5**	**J**	5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:27	1
Iron	**19000**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:27	1
Lead	**0.54**	**J**	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:27	1
Magnesium	**9900**		250	100	ug/L		05/03/11 12:19	05/04/11 17:35	1
Manganese	**830**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:27	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:35	1
Nickel	**3.7**	**J**	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:27	1
Potassium	**9400**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:27	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:27	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:27	1
Sodium	**200000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:27	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:27	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:27	1
Zinc	**23**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:35	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110000		3000	540	ug/L			05/11/11 15:43	3
Nitrogen, Kjeldahl	4900		400	300	ug/L		05/11/11 19:55	05/12/11 16:27	2
Nitrate as N	310	H	50	10	ug/L			04/28/11 16:59	1
Nitrite as N	50	U H	50	10	ug/L			04/28/11 16:59	1
Sulfate	37000		10000	5000	ug/L			05/11/11 12:38	2
Total Organic Carbon	9000		1000	500	ug/L			05/13/11 12:06	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-1
Date Collected: 04/26/11 14:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.9**	**J**	25	5.0	ug/L			05/02/11 23:34	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 23:34	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 23:34	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 23:34	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 23:34	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 23:34	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 23:34	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 23:34	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 23:34	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 23:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 23:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 23:34	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 23:34	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 23:34	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 23:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 23:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 23:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 23:34	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 23:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 23:34	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 23:34	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 23:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 23:34	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 23:34	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 23:34	1
Isobutyl alcohol	40	U	40	11	ug/L			05/02/11 23:34	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 23:34	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 23:34	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 23:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 23:34	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 23:34	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 23:34	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 23:34	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 23:34	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 23:34	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
t-Butanol	**3.1**	**J**	5.0	2.6	ug/L			05/02/11 23:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 23:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 23:34	1

Client Sample ID: SDB-MW-1
Date Collected: 04/26/11 14:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 23:34	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 23:34	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 23:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 23:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 23:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 23:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 23:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 23:34	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 23:34	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 23:34	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 23:34	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 23:34	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 23:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 23:34*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/02/11 23:34*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/02/11 23:34*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/02/11 23:34*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 22:22	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 22:22	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 22:22	1
Methanol	1000	U	1000	830	ug/L			04/29/11 22:22	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		100	50	ug/L		05/03/11 12:19	05/04/11 14:31	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:31	1
Arsenic	**7.7**		2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:31	1
Barium	**490**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:31	1
Beryllium	**0.66**		0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:31	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:31	1
Calcium	**82000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:31	1
Chromium	**160**		5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:31	1
Cobalt	**9.0**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:31	1
Copper	**37**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:31	1
Iron	**230000**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:31	1
Lead	**9.8**		1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:31	1
Magnesium	**22000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:42	1
Manganese	**2300**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:31	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:42	1
Nickel	**95**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:31	1
Potassium	**15000**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:31	1
Selenium	**2.5**		2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:31	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:31	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-1
Date Collected: 04/26/11 14:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**77000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:31	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:31	1
Vanadium	**27**		10	3.2	ug/L		05/03/11 12:19	05/04/11 14:31	1
Zinc	**78**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45000**		1000	180	ug/L			05/11/11 15:01	1
Nitrogen, Kjeldahl	**14000**		1000	750	ug/L		05/11/11 19:55	05/12/11 16:27	5
Nitrate as N	**31**	**J H**	50	10	ug/L			04/28/11 17:00	1
Nitrite as N	**10**	**J H**	50	10	ug/L			04/28/11 17:00	1
Sulfate	5000	U	5000	2500	ug/L			05/11/11 12:34	1
Total Organic Carbon	**51000**		1000	500	ug/L			05/13/11 12:25	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-2
Date Collected: 04/26/11 15:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 00:03	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 00:03	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 00:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 00:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 00:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 00:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 00:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 00:03	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 00:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 00:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 00:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 00:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 00:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 00:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 00:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 00:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 00:03	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 00:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 00:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 00:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 00:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 00:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 00:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 00:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 00:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 00:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 00:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 00:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 00:03	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 00:03	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 00:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 00:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 00:03	1

Client Sample ID: SDB-MW-2
Date Collected: 04/26/11 15:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:03	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 00:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 00:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 00:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 00:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 00:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 00:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 00:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 00:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 00:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 00:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 00:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 00:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 00:03*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/03/11 00:03*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/03/11 00:03*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 00:03*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 22:46	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 22:46	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 22:46	1
Methanol	1000	U	1000	830	ug/L			04/29/11 22:46	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	50	ug/L		05/03/11 12:19	05/04/11 14:35	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:35	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:35	1
Barium	**15**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:35	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:35	1
Cadmium	**0.34**	**J**	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:35	1
Calcium	**490000**		1000	340	ug/L		05/03/11 12:19	05/17/11 15:49	2
Chromium	**3.4**	**J**	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:35	1
Cobalt	**5.8**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:35	1
Copper	**8.5**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:35	1
Iron	**810**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:35	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:35	1
Magnesium	**100000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:49	1
Manganese	**1800**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:35	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:49	1
Nickel	**29**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:35	1
Potassium	**1800**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:35	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:35	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:35	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-2
Date Collected: 04/26/11 15:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**300000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:35	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:35	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:35	1
Zinc	**49**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130000**		3000	540	ug/L			05/11/11 15:43	3
Nitrogen, Kjeldahl	**400**		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	50	U H	50	10	ug/L			04/28/11 17:02	1
Nitrite as N	50	U H	50	10	ug/L			04/28/11 17:02	1
Sulfate	**1200000**		250000	120000	ug/L			05/11/11 13:25	50
Total Organic Carbon	**6300**		1000	500	ug/L			05/13/11 12:44	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 00:32	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 00:32	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 00:32	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 00:32	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 00:32	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 00:32	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 00:32	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 00:32	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 00:32	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 00:32	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 00:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 00:32	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 00:32	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:32	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 00:32	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 00:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:32	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 00:32	1
Diethyl ether	**500**	**E**	10	1.0	ug/L			05/03/11 00:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 00:32	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 00:32	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 00:32	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 00:32	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 00:32	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 00:32	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 00:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 00:32	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 00:32	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 00:32	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 00:32	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 00:32	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 00:32	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
t-Butanol	**830**	**E**	5.0	2.6	ug/L			05/03/11 00:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 00:32	1

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:32	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 00:32	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 00:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 00:32	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 00:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 00:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 00:32	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 00:32	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 00:32	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 00:32	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 00:32	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 00:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 00:32*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/03/11 00:32*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 00:32*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 00:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/03/11 16:59	20
Acetonitrile	800	U	800	200	ug/L			05/03/11 16:59	20
Acrolein	400	U	400	150	ug/L			05/03/11 16:59	20
Acrylonitrile	400	U	400	140	ug/L			05/03/11 16:59	20
Allyl chloride	20	U	20	4.0	ug/L			05/03/11 16:59	20
Benzene	20	U	20	5.0	ug/L			05/03/11 16:59	20
Benzyl chloride	20	U	20	20	ug/L			05/03/11 16:59	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
Bromoform	20	U	20	10	ug/L			05/03/11 16:59	20
Bromomethane	20	U	20	16	ug/L			05/03/11 16:59	20
2-Butanone	200	U	200	20	ug/L			05/03/11 16:59	20
Carbon disulfide	40	U	40	12	ug/L			05/03/11 16:59	20
Carbon tetrachloride	20	U	20	10	ug/L			05/03/11 16:59	20
Chlorobenzene	20	U	20	5.0	ug/L			05/03/11 16:59	20
Chloroethane	20	U	20	20	ug/L			05/03/11 16:59	20
Chloroform	20	U	20	2.8	ug/L			05/03/11 16:59	20
Chloromethane	20	U	20	6.6	ug/L			05/03/11 16:59	20
Chloroprene	20	U	20	6.0	ug/L			05/03/11 16:59	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/03/11 16:59	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/03/11 16:59	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/03/11 16:59	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/03/11 16:59	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
Dibromomethane	20	U	20	4.0	ug/L			05/03/11 16:59	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/03/11 16:59	20

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/03/11 16:59	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/03/11 16:59	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/03/11 16:59	20
Diethyl ether	**440**	**D**	200	20	ug/L			05/03/11 16:59	20
Ethylbenzene	20	U	20	2.2	ug/L			05/03/11 16:59	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/03/11 16:59	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/03/11 16:59	20
2-Hexanone	200	U	200	20	ug/L			05/03/11 16:59	20
Iodomethane	100	U	100	20	ug/L			05/03/11 16:59	20
Isobutyl alcohol	800	U	800	220	ug/L			05/03/11 16:59	20
Methacrylonitrile	400	U	400	66	ug/L			05/03/11 16:59	20
Methylene Chloride	100	U	100	20	ug/L			05/03/11 16:59	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/03/11 16:59	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/03/11 16:59	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/03/11 16:59	20
n-Heptane	20	U	20	8.4	ug/L			05/03/11 16:59	20
Pentachloroethane	100	U	100	24	ug/L			05/03/11 16:59	20
Propionitrile	400	U	400	92	ug/L			05/03/11 16:59	20
Propylene oxide	4000	U	4000	4000	ug/L			05/03/11 16:59	20
Styrene	20	U	20	2.2	ug/L			05/03/11 16:59	20
t-Butanol	**790**	**D**	100	52	ug/L			05/03/11 16:59	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/03/11 16:59	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/03/11 16:59	20
Tetrachloroethene	20	U	20	3.0	ug/L			05/03/11 16:59	20
Toluene	20	U	20	6.6	ug/L			05/03/11 16:59	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/03/11 16:59	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/03/11 16:59	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/03/11 16:59	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/03/11 16:59	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/03/11 16:59	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/03/11 16:59	20
Trichloroethylene	20	U	20	2.6	ug/L			05/03/11 16:59	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/03/11 16:59	20
Vinyl acetate	40	U	40	5.6	ug/L			05/03/11 16:59	20
Vinyl chloride	20	U	20	3.6	ug/L			05/03/11 16:59	20
Xylenes, Total	40	U	40	4.0	ug/L			05/03/11 16:59	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 16:59*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 16:59*	*20*
Dibromofluoromethane	*96*		*70 - 130*		*05/03/11 16:59*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 16:59*	*20*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 23:10	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 23:10	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 23:10	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	1000	U	1000	830	ug/L			04/29/11 23:10	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1300**		100	50	ug/L		05/03/11 12:19	05/04/11 14:39	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:39	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:39	1
Barium	**22**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:39	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:39	1
Cadmium	**0.70**		0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:39	1
Calcium	**380000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:39	1
Chromium	**19**		5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:39	1
Cobalt	**8.4**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:39	1
Copper	**15**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:39	1
Iron	**1700**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:39	1
Lead	**0.91**	**J**	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:39	1
Magnesium	**100000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:56	1
Manganese	**1500**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:39	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:56	1
Nickel	**46**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:39	1
Potassium	**2300**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:39	1
Selenium	**12**		2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:39	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:39	1
Sodium	**300000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:39	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:39	1
Vanadium	**4.0**	**J**	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:39	1
Zinc	**29**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280000**		5000	900	ug/L			05/11/11 15:35	5
Nitrogen, Kjeldahl	**390**		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	**290**	**H**	50	10	ug/L			04/28/11 17:03	1
Nitrite as N	50	U H	50	10	ug/L			04/28/11 17:03	1
Sulfate	**1100000**		250000	120000	ug/L			05/11/11 13:25	50
Total Organic Carbon	**5600**		1000	500	ug/L			05/13/11 13:01	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: Trip Blank 1
Date Collected: 04/26/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 19:44	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 19:44	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 19:44	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 19:44	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 19:44	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 19:44	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 19:44	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 19:44	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 19:44	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 19:44	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 19:44	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 19:44	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 19:44	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:44	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 19:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 19:44	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 19:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:44	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 19:44	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 19:44	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 19:44	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 19:44	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 19:44	1
Isobutyl alcohol	40	U	40	11	ug/L			05/02/11 19:44	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 19:44	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 19:44	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 19:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 19:44	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 19:44	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 19:44	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 19:44	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 19:44	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 19:44	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 19:44	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 19:44	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: Trip Blank 1
Date Collected: 04/26/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:44	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 19:44	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 19:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 19:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 19:44	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 19:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 19:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 19:44	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 19:44	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 19:44	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 19:44	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 19:44	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 19:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 19:44*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/02/11 19:44*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/02/11 19:44*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/02/11 19:44*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-67790-7	MW-8D	94	103	102
680-67790-8 - DL	MW-8U	95	100	102
680-67790-8	MW-8U	98	99	102
680-67790-9	MW-6	94	99	104
680-67790-10	MW-3	95	104	106
680-67790-11	SDB-MW-1	93	102	104
680-67790-12	SDB-MW-2	94	102	104
680-67790-13	SDB-MW-3	92	104	103
680-67790-13 - DL	SDB-MW-3	95	96	104
680-67790-14	Trip Blank 1	95	100	100
LCS 680-201744/4	LCS 680-201744/4	100	103	102
LCS 680-201920/14	LCS 680-201920/14	100	100	101
LCS 680-201921/6	LCS 680-201921/6	99	106	103
LCSD 680-201744/14	LCSD 680-201744/14	100	101	102
LCSD 680-201920/15	LCSD 680-201920/15	101	99	102
LCSD 680-201921/7	LCSD 680-201921/7	99	99	101
MB 680-201744/17	MB 680-201744/17	97	103	104
MB 680-201920/16	MB 680-201920/16	99	105	102
MB 680-201921/9	MB 680-201921/9	96	104	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-130)	(25-130)	(32-130)	(27-130)	(36-130)	(30-130)
680-67790-7	MW-8D	68	60	65	60	92	75
680-67790-8	MW-8U	59	50	58	28	70	74
680-67790-9	MW-6	71	61	68	31	69	92
680-67790-10	MW-3	59	57	62	58	65	80
LCS 680-201675/19-A	LCS 680-201675/19-A	66	61	64	54	70	72
LCS 680-201675/22-A	LCS 680-201675/22-A	58	54	57	55	66	75
MB 680-201675/18-A	MB 680-201675/18-A	61	56	64	52	69	67

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-201744/17
Matrix: Water
Analysis Batch: 201744

Client Sample ID: MB 680-201744/17
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 19:15	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 19:15	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 19:15	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 19:15	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 19:15	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 19:15	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 19:15	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 19:15	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 19:15	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 19:15	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 19:15	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 19:15	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 19:15	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:15	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 19:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 19:15	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 19:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:15	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 19:15	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 19:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 19:15	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 19:15	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 19:15	1
Isobutyl alcohol	40	U	40	11	ug/L			05/02/11 19:15	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 19:15	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 19:15	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 19:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 19:15	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 19:15	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 19:15	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 19:15	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 19:15	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 19:15	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 19:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 19:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201744/17
Matrix: Water
Analysis Batch: 201744

Client Sample ID: MB 680-201744/17
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:15	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 19:15	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 19:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 19:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 19:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 19:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 19:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 19:15	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 19:15	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 19:15	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 19:15	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 19:15	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 19:15	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 19:15*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/02/11 19:15*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/02/11 19:15*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/02/11 19:15*	*1*

Lab Sample ID: LCS 680-201744/4
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCS 680-201744/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	108		ug/L		108	26 - 180
Benzene	50.0	51.1		ug/L		102	70 - 130
Bromodichloromethane	50.0	52.5		ug/L		105	70 - 130
Bromoform	50.0	44.9		ug/L		90	70 - 130
Bromomethane	50.0	45.6		ug/L		91	23 - 165
2-Butanone	100	97.7		ug/L		98	49 - 172
Carbon disulfide	50.0	47.7		ug/L		95	54 - 132
Carbon tetrachloride	50.0	54.2		ug/L		108	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	70 - 130
Chloroethane	50.0	41.8		ug/L		84	56 - 152
Chloroform	50.0	51.6		ug/L		103	70 - 130
Chloromethane	50.0	46.5		ug/L		93	70 - 130
cis-1,2-Dichloroethene	50.0	52.0		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	53.4		ug/L		107	70 - 130
Dibromochloromethane	50.0	54.3		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.6		ug/L		107	70 - 130
1,2-Dibromoethane	50.0	52.1		ug/L		104	70 - 130
Dibromomethane	50.0	50.5		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	46.2		ug/L		92	44 - 146
1,1-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	49.8		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201744/4
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCS 680-201744/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1-Dichloroethene	50.0	50.6		ug/L		101	66 - 131
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
Diethyl ether	50.0	50.4		ug/L		101	10 - 200
Ethylbenzene	50.0	51.9		ug/L		104	70 - 130
2-Hexanone	100	103		ug/L		103	42 - 185
Methylene Chloride	50.0	49.0		ug/L		98	67 - 130
4-Methyl-2-pentanone (MIBK)	100	99.8		ug/L		100	70 - 130
Methyl tert-butyl ether	100	105		ug/L		105	64 - 131
Styrene	50.0	52.9		ug/L		106	70 - 130
t-Butanol	50.0	57.7		ug/L		115	20 - 195
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.9		ug/L		104	70 - 130
Tetrachloroethene	50.0	49.8		ug/L		100	70 - 130
Toluene	50.0	50.8		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	70 - 130
1,2,3-Trichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	70 - 130
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	70 - 130
Trichloroethylene	50.0	51.2		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	45.9		ug/L		92	55 - 156
1,2,3-Trichloropropane	50.0	50.5		ug/L		101	70 - 130
Vinyl acetate	100	157		ug/L		157	60 - 176
Vinyl chloride	50.0	53.1		ug/L		106	67 - 134
Xylenes, Total	150	156		ug/L		104	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-201744/14
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCSD 680-201744/14
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	105		ug/L		105	26 - 180	3	50
Benzene	50.0	51.4		ug/L		103	70 - 130	1	30
Bromodichloromethane	50.0	52.8		ug/L		106	70 - 130	1	30
Bromoform	50.0	44.9		ug/L		90	70 - 130	0	30
Bromomethane	50.0	49.6		ug/L		99	23 - 165	8	50
2-Butanone	100	99.8		ug/L		100	49 - 172	2	30
Carbon disulfide	50.0	46.5		ug/L		93	54 - 132	3	30
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130	1	30
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130	1	30
Chloroethane	50.0	41.5		ug/L		83	56 - 152	1	40
Chloroform	50.0	50.9		ug/L		102	70 - 130	1	30
Chloromethane	50.0	45.6		ug/L		91	70 - 130	2	30
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201744/14
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCSD 680-201744/14
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	54.6		ug/L		109	70 - 130	2	30
Dibromochloromethane			50.0	54.7		ug/L		109	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	53.5		ug/L		107	70 - 130	0	50
1,2-Dibromoethane			50.0	53.1		ug/L		106	70 - 130	2	30
Dibromomethane			50.0	51.3		ug/L		103	70 - 130	1	30
Dichlorodifluoromethane			50.0	44.7		ug/L		89	44 - 146	3	50
1,1-Dichloroethane			50.0	51.0		ug/L		102	70 - 130	2	30
1,2-Dichloroethane			50.0	49.8		ug/L		100	70 - 130	0	30
1,1-Dichloroethene			50.0	48.2		ug/L		96	66 - 131	5	30
1,2-Dichloropropane			50.0	50.6		ug/L		101	70 - 130	0	30
Diethyl ether			50.0	49.3		ug/L		99	10 - 200	2	50
Ethylbenzene			50.0	51.8		ug/L		104	70 - 130	0	30
2-Hexanone			100	105		ug/L		105	42 - 185	2	30
Methylene Chloride			50.0	49.5		ug/L		99	67 - 130	1	30
4-Methyl-2-pentanone (MIBK)			100	102		ug/L		102	70 - 130	2	30
Methyl tert-butyl ether			100	104		ug/L		104	64 - 131	0	30
Styrene			50.0	52.7		ug/L		105	70 - 130	0	30
t-Butanol			50.0	57.6		ug/L		115	20 - 195	0	50
1,1,1,2-Tetrachloroethane			50.0	54.6		ug/L		109	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	51.6		ug/L		103	70 - 130	1	30
Tetrachloroethene			50.0	49.1		ug/L		98	70 - 130	2	30
Toluene			50.0	51.4		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.6		ug/L		101	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	55.7		ug/L		111	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	51.6		ug/L		103	70 - 130	1	30
1,1,1-Trichloroethane			50.0	52.2		ug/L		104	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.7		ug/L		103	70 - 130	2	30
Trichloroethylene			50.0	51.3		ug/L		103	70 - 130	0	30
Trichlorofluoromethane			50.0	43.5		ug/L		87	55 - 156	5	30
1,2,3-Trichloropropane			50.0	50.7		ug/L		101	70 - 130	1	30
Vinyl acetate			100	156		ug/L		156	60 - 176	1	30
Vinyl chloride			50.0	51.0		ug/L		102	67 - 134	4	30
Xylenes, Total			150	156		ug/L		104	70 - 130	0	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-201920/16
Matrix: Water
Analysis Batch: 201920

Client Sample ID: MB 680-201920/16
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 23:05	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 23:05	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 23:05	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 23:05	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 23:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201920/16
Matrix: Water
Analysis Batch: 201920

Client Sample ID: MB 680-201920/16
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 23:05	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 23:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 23:05	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 23:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 23:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 23:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 23:05	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 23:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 23:05	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 23:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 23:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 23:05	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 23:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 23:05	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 23:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 23:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 23:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 23:05	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 23:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 23:05	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 23:05	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 23:05	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 23:05	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 23:05	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 23:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 23:05	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 23:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 23:05	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 23:05	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 23:05	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 23:05	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 23:05	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 23:05	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 23:05	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 23:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 23:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 23:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 23:05	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 23:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 23:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 23:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 23:05	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 23:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201920/16
Matrix: Water
Analysis Batch: 201920

Client Sample ID: MB 680-201920/16
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 23:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 23:05	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 23:05	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 23:05	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 23:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 23:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 23:05	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 23:05*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*05/03/11 23:05*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/03/11 23:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/03/11 23:05*	*1*

Lab Sample ID: LCS 680-201920/14
Matrix: Water
Analysis Batch: 201920

Client Sample ID: LCS 680-201920/14
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	115		ug/L		115	26 - 180
Benzene	50.0	49.9		ug/L		100	70 - 130
Bromodichloromethane	50.0	51.2		ug/L		102	70 - 130
Bromoform	50.0	43.0		ug/L		86	70 - 130
Bromomethane	50.0	34.8		ug/L		70	23 - 165
2-Butanone	100	109		ug/L		109	49 - 172
Carbon disulfide	50.0	47.7		ug/L		95	54 - 132
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130
Chlorobenzene	50.0	48.1		ug/L		96	70 - 130
Chloroethane	50.0	41.5		ug/L		83	56 - 152
Chloroform	50.0	49.7		ug/L		99	70 - 130
Chloromethane	50.0	43.6		ug/L		87	70 - 130
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	70 - 130
Dibromochloromethane	50.0	52.9		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.1		ug/L		96	70 - 130
1,2-Dibromoethane	50.0	49.8		ug/L		100	70 - 130
Dibromomethane	50.0	51.5		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	42.5		ug/L		85	44 - 146
1,1-Dichloroethane	50.0	49.2		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	49.9		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	50.2		ug/L		100	66 - 131
1,2-Dichloropropane	50.0	50.8		ug/L		102	70 - 130
Diethyl ether	50.0	47.0		ug/L		94	10 - 200
Ethylbenzene	50.0	50.8		ug/L		102	70 - 130
2-Hexanone	100	118		ug/L		118	42 - 185
Methylene Chloride	50.0	49.8		ug/L		100	67 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201920/14
Matrix: Water
Analysis Batch: 201920

Client Sample ID: LCS 680-201920/14
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Methyl-2-pentanone (MIBK)	100	106		ug/L		106	70 - 130
Methyl tert-butyl ether	100	100		ug/L		100	64 - 131
Styrene	50.0	51.5		ug/L		103	70 - 130
t-Butanol	50.0	58.2		ug/L		116	20 - 195
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/L		102	70 - 130
Tetrachloroethene	50.0	47.4		ug/L		95	70 - 130
Toluene	50.0	51.0		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	54.3		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	50.0	49.5		ug/L		99	70 - 130
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	70 - 130
Trichloroethylene	50.0	48.3		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	47.2		ug/L		94	55 - 156
1,2,3-Trichloropropane	50.0	49.5		ug/L		99	70 - 130
Vinyl acetate	100	140		ug/L		140	60 - 176
Vinyl chloride	50.0	51.8		ug/L		104	67 - 134
Xylenes, Total	150	152		ug/L		101	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-201920/15
Matrix: Water
Analysis Batch: 201920

Client Sample ID: LCSD 680-201920/15
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	105		ug/L		105	26 - 180	9	50
Benzene	50.0	50.8		ug/L		102	70 - 130	2	30
Bromodichloromethane	50.0	52.2		ug/L		104	70 - 130	2	30
Bromoform	50.0	42.8		ug/L		86	70 - 130	0	30
Bromomethane	50.0	35.2		ug/L		70	23 - 165	1	50
2-Butanone	100	94.2		ug/L		94	49 - 172	15	30
Carbon disulfide	50.0	45.4		ug/L		91	54 - 132	5	30
Carbon tetrachloride	50.0	52.7		ug/L		105	70 - 130	2	30
Chlorobenzene	50.0	48.3		ug/L		97	70 - 130	0	30
Chloroethane	50.0	43.0		ug/L		86	56 - 152	4	40
Chloroform	50.0	49.9		ug/L		100	70 - 130	0	30
Chloromethane	50.0	43.0		ug/L		86	70 - 130	1	30
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	70 - 130	5	30
Dibromochloromethane	50.0	54.2		ug/L		108	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	50.0	46.8		ug/L		94	70 - 130	3	50
1,2-Dibromoethane	50.0	49.5		ug/L		99	70 - 130	1	30
Dibromomethane	50.0	51.7		ug/L		103	70 - 130	0	30
Dichlorodifluoromethane	50.0	40.3		ug/L		81	44 - 146	5	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201920/15
Matrix: Water
Analysis Batch: 201920

Client Sample ID: LCSD 680-201920/15
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			50.0	49.2		ug/L		98	70 - 130	0	30
1,2-Dichloroethane			50.0	50.3		ug/L		101	70 - 130	1	30
1,1-Dichloroethene			50.0	47.3		ug/L		95	66 - 131	6	30
1,2-Dichloropropane			50.0	49.9		ug/L		100	70 - 130	2	30
Diethyl ether			50.0	45.9		ug/L		92	10 - 200	2	50
Ethylbenzene			50.0	51.4		ug/L		103	70 - 130	1	30
2-Hexanone			100	107		ug/L		107	42 - 185	10	30
Methylene Chloride			50.0	48.5		ug/L		97	67 - 130	3	30
4-Methyl-2-pentanone (MIBK)			100	102		ug/L		102	70 - 130	3	30
Methyl tert-butyl ether			100	97.8		ug/L		98	64 - 131	2	30
Styrene			50.0	52.2		ug/L		104	70 - 130	1	30
t-Butanol			50.0	54.6		ug/L		109	20 - 195	6	50
1,1,1,2-Tetrachloroethane			50.0	51.7		ug/L		103	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	48.9		ug/L		98	70 - 130	5	30
Tetrachloroethene			50.0	47.9		ug/L		96	70 - 130	1	30
Toluene			50.0	51.0		ug/L		102	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	48.9		ug/L		98	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	50.9		ug/L		102	70 - 130	6	50
1,2,3-Trichlorobenzene			50.0	48.2		ug/L		96	70 - 130	3	30
1,1,1-Trichloroethane			50.0	50.6		ug/L		101	70 - 130	1	30
1,1,2-Trichloroethane			50.0	50.8		ug/L		102	70 - 130	1	30
Trichloroethylene			50.0	49.9		ug/L		100	70 - 130	3	30
Trichlorofluoromethane			50.0	47.1		ug/L		94	55 - 156	0	30
1,2,3-Trichloropropane			50.0	50.3		ug/L		101	70 - 130	2	30
Vinyl acetate			100	114		ug/L		114	60 - 176	20	30
Vinyl chloride			50.0	48.4		ug/L		97	67 - 134	7	30
Xylenes, Total			150	154		ug/L		103	70 - 130	1	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-201921/9
Matrix: Water
Analysis Batch: 201921

Client Sample ID: MB 680-201921/9
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 12:02	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 12:02	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 12:02	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 12:02	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 12:02	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 12:02	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 12:02	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 12:02	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 12:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201921/9
Matrix: Water
Analysis Batch: 201921

Client Sample ID: MB 680-201921/9
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 12:02	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 12:02	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 12:02	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 12:02	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 12:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 12:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 12:02	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 12:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 12:02	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 12:02	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 12:02	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 12:02	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 12:02	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 12:02	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 12:02	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 12:02	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 12:02	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 12:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 12:02	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 12:02	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 12:02	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 12:02	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 12:02	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 12:02	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 12:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 12:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 12:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 12:02	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 12:02	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 12:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 12:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 12:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 12:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 12:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 12:02	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 12:02	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 12:02	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 12:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201921/9
Matrix: Water
Analysis Batch: 201921

Client Sample ID: MB 680-201921/9
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 12:02	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 12:02	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 12:02*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/03/11 12:02*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 12:02*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/03/11 12:02*	*1*

Lab Sample ID: LCS 680-201921/6
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCS 680-201921/6
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	103		ug/L		103	26 - 180
Benzene	50.0	51.8		ug/L		104	70 - 130
Bromodichloromethane	50.0	52.9		ug/L		106	70 - 130
Bromoform	50.0	44.4		ug/L		89	70 - 130
Bromomethane	50.0	48.5		ug/L		97	23 - 165
2-Butanone	100	98.6		ug/L		99	49 - 172
Carbon disulfide	50.0	49.4		ug/L		99	54 - 132
Carbon tetrachloride	50.0	54.0		ug/L		108	70 - 130
Chlorobenzene	50.0	49.7		ug/L		99	70 - 130
Chloroethane	50.0	44.8		ug/L		90	56 - 152
Chloroform	50.0	52.7		ug/L		105	70 - 130
Chloromethane	50.0	46.6		ug/L		93	70 - 130
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130
Dibromochloromethane	50.0	53.8		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.8		ug/L		104	70 - 130
1,2-Dibromoethane	50.0	52.1		ug/L		104	70 - 130
Dibromomethane	50.0	51.1		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	46.8		ug/L		94	44 - 146
1,1-Dichloroethane	50.0	52.9		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	50.3		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	50.5		ug/L		101	66 - 131
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130
Diethyl ether	50.0	49.6		ug/L		99	10 - 200
Ethylbenzene	50.0	51.5		ug/L		103	70 - 130
2-Hexanone	100	102		ug/L		102	42 - 185
Methylene Chloride	50.0	51.6		ug/L		103	67 - 130
4-Methyl-2-pentanone (MIBK)	100	98.4		ug/L		98	70 - 130
Methyl tert-butyl ether	100	105		ug/L		105	64 - 131
Styrene	50.0	52.1		ug/L		104	70 - 130
t-Butanol	50.0	55.4		ug/L		111	20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201921/6
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCS 680-201921/6
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Tetrachloroethene	50.0	48.5		ug/L		97	70 - 130
Toluene	50.0	52.1		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130
1,2,3-Trichlorobenzene	50.0	49.7		ug/L		99	70 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
Trichloroethylene	50.0	51.0		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	47.2		ug/L		94	55 - 156
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	70 - 130
Vinyl acetate	100	159		ug/L		159	60 - 176
Vinyl chloride	50.0	53.8		ug/L		108	67 - 134
Xylenes, Total	150	154		ug/L		103	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-201921/7
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCSD 680-201921/7
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	89.5		ug/L		90	26 - 180	14	50
Benzene	50.0	51.6		ug/L		103	70 - 130	0	30
Bromodichloromethane	50.0	52.4		ug/L		105	70 - 130	1	30
Bromoform	50.0	44.2		ug/L		88	70 - 130	1	30
Bromomethane	50.0	48.5		ug/L		97	23 - 165	0	50
2-Butanone	100	94.8		ug/L		95	49 - 172	4	30
Carbon disulfide	50.0	46.9		ug/L		94	54 - 132	5	30
Carbon tetrachloride	50.0	53.9		ug/L		108	70 - 130	0	30
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130	3	30
Chloroethane	50.0	41.6		ug/L		83	56 - 152	8	40
Chloroform	50.0	49.5		ug/L		99	70 - 130	6	30
Chloromethane	50.0	47.8		ug/L		96	70 - 130	3	30
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130	6	30
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130	0	30
Dibromochloromethane	50.0	53.4		ug/L		107	70 - 130	1	50
1,2-Dibromo-3-Chloropropane	50.0	51.4		ug/L		103	70 - 130	1	50
1,2-Dibromoethane	50.0	51.7		ug/L		103	70 - 130	1	30
Dibromomethane	50.0	50.0		ug/L		100	70 - 130	2	30
Dichlorodifluoromethane	50.0	49.7		ug/L		99	44 - 146	6	50
1,1-Dichloroethane	50.0	50.3		ug/L		101	70 - 130	5	30
1,2-Dichloroethane	50.0	49.3		ug/L		99	70 - 130	2	30
1,1-Dichloroethene	50.0	48.8		ug/L		98	66 - 131	3	30
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130	2	30
Diethyl ether	50.0	47.3		ug/L		95	10 - 200	5	50
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201921/7
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCSD 680-201921/7
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2-Hexanone			100	102		ug/L		102	42 - 185	0	30
Methylene Chloride			50.0	47.0		ug/L		94	67 - 130	9	30
4-Methyl-2-pentanone (MIBK)			100	99.2		ug/L		99	70 - 130	1	30
Methyl tert-butyl ether			100	101		ug/L		101	64 - 131	4	30
Styrene			50.0	52.1		ug/L		104	70 - 130	0	30
t-Butanol			50.0	56.6		ug/L		113	20 - 195	2	50
1,1,1,2-Tetrachloroethane			50.0	52.7		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	50.3		ug/L		101	70 - 130	1	30
Tetrachloroethene			50.0	48.7		ug/L		97	70 - 130	0	30
Toluene			50.0	51.6		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.0		ug/L		100	70 - 130	6	30
trans-1,3-Dichloropropene			50.0	54.8		ug/L		110	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	48.9		ug/L		98	70 - 130	1	30
1,1,1-Trichloroethane			50.0	52.7		ug/L		105	70 - 130	1	30
1,1,2-Trichloroethane			50.0	50.2		ug/L		100	70 - 130	2	30
Trichloroethylene			50.0	50.6		ug/L		101	70 - 130	1	30
Trichlorofluoromethane			50.0	47.8		ug/L		96	55 - 156	1	30
1,2,3-Trichloropropane			50.0	48.7		ug/L		97	70 - 130	2	30
Vinyl acetate			100	159		ug/L		159	60 - 176	0	30
Vinyl chloride			50.0	52.0		ug/L		104	67 - 134	3	30
Xylenes, Total			150	153		ug/L		102	70 - 130	0	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Acetophenone	0.195	J	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/03/11 14:47	05/08/11 12:29	1
Aniline	2.0	U	2.0	0.97	ug/L		05/03/11 14:47	05/08/11 12:29	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/08/11 12:29	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/03/11 14:47	05/08/11 12:29	1
Diallate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,4-Dichlorobenzene	0.227	J	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/08/11 12:29	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/03/11 14:47	05/08/11 12:29	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/03/11 14:47	05/08/11 12:29	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Famphur	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/08/11 12:29	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorophene	500	U	500	25	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methapyrilene	200	U	200	1.3	ug/L		05/03/11 14:47	05/08/11 12:29	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/03/11 14:47	05/08/11 12:29	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/03/11 14:47	05/08/11 12:29	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/08/11 12:29	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/08/11 12:29	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
o,o',o''-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenol	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phorate	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/08/11 12:29	1
p-Phenylene diamine	200	U	200	16	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/03/11 14:47	05/08/11 12:29	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/08/11 12:29	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thionazin	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*19.5*	*T A J*	*ug/L*		*4.02*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*1.32*	*T J*	*ug/L*		*5.00*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*6.12*	*T J*	*ug/L*		*5.08*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*0.555*	*T J*	*ug/L*		*6.31*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*2.50*	*T J*	*ug/L*		*8.69*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*0.615*	*T J*	*ug/L*		*11.24*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Oleic Acid	*4.83*	*T J N*	*ug/L*		*12.19*	*112-80-1*	*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*1.30*	*T J*	*ug/L*		*12.39*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown Organic Acid	*3.18*	*T J*	*ug/L*		*14.03*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Tricosane	*0.588*	*T J N*	*ug/L*		*14.09*	*638-67-5*	*05/03/11 14:47*	*05/08/11 12:29*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*34 - 130*	*05/03/11 14:47*	*05/08/11 12:29*	*1*
2-Fluorophenol	*56*		*25 - 130*	*05/03/11 14:47*	*05/08/11 12:29*	*1*
Nitrobenzene-d5	*64*		*32 - 130*	*05/03/11 14:47*	*05/08/11 12:29*	*1*
Phenol-d5	*52*		*27 - 130*	*05/03/11 14:47*	*05/08/11 12:29*	*1*
Terphenyl-d14	*69*		*36 - 130*	*05/03/11 14:47*	*05/08/11 12:29*	*1*
2,4,6-Tribromophenol	*67*		*30 - 130*	*05/03/11 14:47*	*05/08/11 12:29*	*1*

Lab Sample ID: LCS 680-201675/19-A
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LCS 680-201675/19-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	2.00	1.38		ug/L		69	42 - 130
Acenaphthylene	2.00	1.43		ug/L		71	45 - 130
Acetophenone	10.0	6.26		ug/L		63	45 - 130
Aniline	10.0	5.33		ug/L		53	10 - 130
Anthracene	2.00	1.35		ug/L		68	58 - 130
Benzo[a]anthracene	2.00	1.40		ug/L		70	42 - 143
Benzo[a]pyrene	2.00	1.37		ug/L		68	45 - 151
Benzo[b]fluoranthene	2.00	1.46		ug/L		73	41 - 140
Benzo[g,h,i]perylene	2.00	1.28		ug/L		64	27 - 134
Benzo[k]fluoranthene	2.00	1.60		ug/L		80	45 - 140
Benzyl alcohol	10.0	4.32		ug/L		43	34 - 130
1,1'-Biphenyl	10.0	6.41		ug/L		64	50 - 130
Bis(2-chloroethoxy)methane	10.0	6.66		ug/L		67	47 - 130
Bis(2-chloroethyl)ether	10.0	6.36		ug/L		64	36 - 130
Bis(2-ethylhexyl) phthalate	10.0	6.96		ug/L		70	10 - 158
4-Bromophenyl phenyl ether	10.0	7.02		ug/L		70	44 - 130
Butyl benzyl phthalate	10.0	7.92		ug/L		79	60 - 130
4-Chloroaniline	10.0	5.65		ug/L		56	17 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201675/19-A
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LCS 680-201675/19-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chloro-3-methylphenol	10.0	5.66		ug/L		57	54 - 130
2-Chloronaphthalene	10.0	6.09		ug/L		61	48 - 130
2-Chlorophenol	10.0	5.46		ug/L		55	45 - 130
4-Chlorophenyl phenyl ether	10.0	6.62		ug/L		66	52 - 130
Chrysene	2.00	1.41		ug/L		70	40 - 142
Dibenz(a,h)anthracene	2.00	1.21		ug/L		61	38 - 130
Dibenzofuran	10.0	6.60		ug/L		66	56 - 130
1,2-Dichlorobenzene	10.0	5.37		ug/L		54	36 - 130
1,3-Dichlorobenzene	10.0	5.29		ug/L		53	31 - 130
1,4-Dichlorobenzene	10.0	5.71		ug/L		57	34 - 130
3,3'-Dichlorobenzidine	10.0	7.13	J	ug/L		71	10 - 158
2,4-Dichlorophenol	10.0	5.70	*	ug/L		57	58 - 130
Diethyl phthalate	10.0	7.18		ug/L		72	60 - 130
2,4-Dimethylphenol	10.0	3.81	*	ug/L		38	41 - 130
Dimethyl phthalate	10.0	6.96		ug/L		70	58 - 130
Di-n-butyl phthalate	10.0	7.01		ug/L		70	59 - 130
4,6-Dinitro-2-methylphenol	10.0	5.65		ug/L		56	10 - 182
2,4-Dinitrophenol	10.0	4.24	J	ug/L		42	10 - 200
2,4-Dinitrotoluene	10.0	5.91		ug/L		59	57 - 130
2,6-Dinitrotoluene	10.0	7.15		ug/L		71	53 - 130
Di-n-octyl phthalate	10.0	6.78		ug/L		68	19 - 130
1,4-Dioxane	10.0	3.66		ug/L		37	10 - 130
Fluoranthene	2.00	1.38		ug/L		69	46 - 136
Fluorene	2.00	1.35		ug/L		68	48 - 130
Hexachlorobenzene	10.0	6.66		ug/L		67	49 - 130
Hexachlorobutadiene	10.0	5.82		ug/L		58	36 - 130
Hexachlorocyclopentadiene	10.0	7.01		ug/L		70	16 - 130
Hexachloroethane	10.0	5.67		ug/L		57	32 - 130
Indeno[1,2,3-cd]pyrene	2.00	1.07		ug/L		54	12 - 130
Isophorone	10.0	5.77		ug/L		58	45 - 130
2-Methylnaphthalene	2.00	1.29		ug/L		65	51 - 130
2-Methylphenol	10.0	5.69		ug/L		57	49 - 130
3 & 4 Methylphenol	10.0	5.38	*	ug/L		54	55 - 130
Naphthalene	2.00	1.26		ug/L		63	35 - 130
2-Nitroaniline	10.0	6.97		ug/L		70	48 - 130
3-Nitroaniline	10.0	7.21		ug/L		72	18 - 147
4-Nitroaniline	10.0	8.06		ug/L		81	31 - 147
Nitrobenzene	10.0	5.99		ug/L		60	45 - 130
2-Nitrophenol	10.0	6.41		ug/L		64	49 - 130
4-Nitrophenol	10.0	4.56	J	ug/L		46	36 - 132
N-Nitrosodimethylamine	10.0	6.43		ug/L		64	29 - 130
N-Nitrosodi-n-propylamine	10.0	6.64		ug/L		66	42 - 130
N-Nitrosodiphenylamine	10.0	7.00		ug/L		70	38 - 130
2,2'-oxybis[1-chloropropane]	10.0	6.35		ug/L		63	39 - 130
Pentachlorophenol	10.0	4.27	J	ug/L		43	12 - 156
Phenanthrene	2.00	1.40		ug/L		70	45 - 134
Phenol	10.0	5.06		ug/L		51	44 - 130
Pyrene	2.00	1.51		ug/L		75	47 - 143
Pyridine	10.0	4.21	J	ug/L		42	10 - 130
1,2,4-Trichlorobenzene	10.0	5.45		ug/L		55	39 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201675/19-A
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LCS 680-201675/19-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2,4,5-Trichlorophenol	10.0	6.32		ug/L		63	61 - 130
2,4,6-Trichlorophenol	10.0	6.22		ug/L		62	61 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*34 - 130*
2-Fluorophenol	*61*		*25 - 130*
Nitrobenzene-d5	*64*		*32 - 130*
Phenol-d5	*54*		*27 - 130*
Terphenyl-d14	*70*		*36 - 130*
2,4,6-Tribromophenol	*72*		*30 - 130*

Lab Sample ID: LCS 680-201675/22-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201675/22-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2-Acetylaminofluorene	10.0	8.74		ug/L		87	10 - 130
alpha,alpha-Dimethyl phenethylamine	10.0	5.83	J	ug/L		58	10 - 130
4-Aminobiphenyl	10.0	4.88	J	ug/L		49	10 - 130
Aramite, Total	10.0	7.78		ug/L		78	10 - 130
Diallate	10.0	6.82		ug/L		68	10 - 130
2,6-Dichlorophenol	10.0	6.95		ug/L		70	10 - 130
Dimethoate	10.0	5.59		ug/L		56	10 - 130
7,12-Dimethylbenz(a)anthracene	10.0	5.88		ug/L		59	10 - 130
3,3'-Dimethylbenzidine	10.0	28.6	*	ug/L		286	10 - 130
Disulfoton	10.0	5.99		ug/L		60	10 - 130
Ethyl methanesulfonate	10.0	7.85		ug/L		79	10 - 130
Ethyl Parathion	10.0	7.76		ug/L		78	10 - 130
Famphur	10.0	1.45		ug/L		14	10 - 130
Hexachlorophene	50.0	500	U *	ug/L		6	10 - 130
Hexachloropropene	10.0	2.59		ug/L		26	10 - 130
Isosafrole	10.0	6.57		ug/L		66	10 - 130
m-Dinitrobenzene	10.0	6.70		ug/L		67	10 - 130
Methapyrilene	50.0	27.1	J	ug/L		54	10 - 130
3-Methylcholanthrene	10.0	6.47		ug/L		65	10 - 130
Methyl methanesulfonate	10.0	4.13		ug/L		41	10 - 130
Methyl parathion	10.0	6.19		ug/L		62	10 - 130
1-Naphthalenamine	10.0	5.41		ug/L		54	10 - 130
2-Naphthalenamine	10.0	5.44		ug/L		54	10 - 130
1,4-Naphthoquinone	10.0	2.08		ug/L		21	10 - 130
5-Nitro-o-toluidine	10.0	7.59		ug/L		76	10 - 130
4-Nitroquinoline-1-oxide	10.0	5.87		ug/L		59	10 - 130
N-Nitrosodiethylamine	10.0	6.44		ug/L		64	10 - 130
N-Nitrosodi-n-butylamine	10.0	6.82		ug/L		68	10 - 130
N-Nitrosomethylethylamine	10.0	6.54		ug/L		65	10 - 130
N-Nitrosomorpholine	10.0	7.08		ug/L		71	10 - 130
N-Nitrosopiperidine	10.0	6.86		ug/L		69	10 - 130
N-Nitrosopyrrolidine	10.0	6.89		ug/L		69	10 - 130
o,o',o''-Triethylphosphorothioate	10.0	5.91		ug/L		59	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201675/22-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201675/22-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
o-Toluidine	10.0	5.28		ug/L		53	10 - 130
p-Dimethylamino azobenzene	10.0	8.01		ug/L		80	10 - 130
Pentachlorobenzene	10.0	5.91		ug/L		59	10 - 130
Pentachloronitrobenzene	10.0	7.08		ug/L		71	10 - 130
Phenacetin	10.0	7.31		ug/L		73	10 - 130
Phorate	10.0	6.49		ug/L		65	10 - 130
2-Picoline	10.0	5.42		ug/L		54	10 - 130
p-Phenylene diamine	10.0	200	U	ug/L		71	10 - 130
Pronamide	10.0	7.47		ug/L		75	10 - 130
Safrole, Total	10.0	5.99		ug/L		60	10 - 130
2-sec-Butyl-4,6-dinitrophenol	10.0	10.8		ug/L		108	10 - 130
Sulfotepp	10.0	6.51		ug/L		65	10 - 130
1,2,4,5-Tetrachlorobenzene	10.0	4.87		ug/L		49	10 - 130
2,3,4,6-Tetrachlorophenol	10.0	7.25		ug/L		73	10 - 130
Thionazin	10.0	7.79		ug/L		78	10 - 130
1,3,5-Trinitrobenzene	10.0	7.37		ug/L		74	10 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*34 - 130*
2-Fluorophenol	*54*		*25 - 130*
Nitrobenzene-d5	*57*		*32 - 130*
Phenol-d5	*55*		*27 - 130*
Terphenyl-d14	*66*		*36 - 130*
2,4,6-Tribromophenol	*75*		*30 - 130*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 680-201557/22
Matrix: Water
Analysis Batch: 201557

Client Sample ID: MB 680-201557/22
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			04/29/11 16:24	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 16:24	1
Methanol	1000	U	1000	830	ug/L			04/29/11 16:24	1

Lab Sample ID: LCS 680-201557/20
Matrix: Water
Analysis Batch: 201557

Client Sample ID: LCS 680-201557/20
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	19800		ug/L		99	38 - 156
Isopropanol	20000	20300		ug/L		102	70 - 130
Methanol	20000	15500		ug/L		77	43 - 143

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCSD 680-201557/21
Matrix: Water
Analysis Batch: 201557

Client Sample ID: LCSD 680-201557/21
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	19700		ug/L		98	38 - 156	0	50
Isopropanol	20000	20200		ug/L		101	70 - 130	1	50
Methanol	20000	15400		ug/L		77	43 - 143	0	50

Lab Sample ID: MB 680-204798/12
Matrix: Water
Analysis Batch: 204798

Client Sample ID: MB 680-204798/12
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 16:48	1

Lab Sample ID: LCS 680-204798/2
Matrix: Water
Analysis Batch: 204798

Client Sample ID: LCS 680-204798/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	20000	19600		ug/L		98	70 - 130

Lab Sample ID: LCSD 680-204798/3
Matrix: Water
Analysis Batch: 204798

Client Sample ID: LCSD 680-204798/3
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	20000	20000		ug/L		100	70 - 130	2	50

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-201734/1-A
Matrix: Water
Analysis Batch: 201938

Client Sample ID: MB 680-201734/1-A
Prep Type: Total/NA
Prep Batch: 201734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/03/11 12:19	05/04/11 13:23	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 13:23	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 13:23	1
Barium	5.0	U	5.0	1.4	ug/L		05/03/11 12:19	05/04/11 13:23	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 13:23	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 13:23	1
Calcium	500	U	500	170	ug/L		05/03/11 12:19	05/04/11 13:23	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 13:23	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/03/11 12:19	05/04/11 13:23	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 12:19	05/04/11 13:23	1
Iron	59.5	J	100	44	ug/L		05/03/11 12:19	05/04/11 13:23	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 13:23	1
Manganese	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 13:23	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 13:23	1
Potassium	1000	U	1000	330	ug/L		05/03/11 12:19	05/04/11 13:23	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 13:23	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 13:23	1
Sodium	500	U	500	170	ug/L		05/03/11 12:19	05/04/11 13:23	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-201734/1-A
Matrix: Water
Analysis Batch: 201938

Client Sample ID: MB 680-201734/1-A
Prep Type: Total/NA
Prep Batch: 201734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 13:23	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 12:19	05/04/11 13:23	1

Lab Sample ID: MB 680-201734/1-A
Matrix: Water
Analysis Batch: 201977

Client Sample ID: MB 680-201734/1-A
Prep Type: Total/NA
Prep Batch: 201734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	250	U	250	100	ug/L		05/03/11 12:19	05/04/11 15:36	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 15:36	1
Zinc	10.9	J	20	8.4	ug/L		05/03/11 12:19	05/04/11 15:36	1

Lab Sample ID: LCS 680-201734/2-A
Matrix: Water
Analysis Batch: 201938

Client Sample ID: LCS 680-201734/2-A
Prep Type: Total/NA
Prep Batch: 201734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5000	5060		ug/L		101	75 - 125
Antimony	50.0	56.7		ug/L		113	75 - 125
Arsenic	100	99.4		ug/L		99	75 - 125
Barium	100	99.4		ug/L		99	75 - 125
Beryllium	50.0	50.0		ug/L		100	75 - 125
Cadmium	50.0	52.3		ug/L		105	75 - 125
Calcium	5000	5110		ug/L		102	75 - 125
Chromium	100	101		ug/L		101	75 - 125
Cobalt	50.0	51.8		ug/L		104	75 - 125
Copper	100	105		ug/L		105	75 - 125
Iron	5000	5490		ug/L		110	75 - 125
Lead	50.0	52.3		ug/L		105	75 - 125
Manganese	500	505		ug/L		101	75 - 125
Nickel	100	106		ug/L		106	75 - 125
Potassium	5000	5340		ug/L		107	75 - 125
Selenium	100	99.9		ug/L		100	75 - 125
Silver	50.0	54.2		ug/L		108	75 - 125
Sodium	5000	5490		ug/L		110	75 - 125
Thallium	40.0	41.5		ug/L		104	75 - 125
Vanadium	100	102		ug/L		102	75 - 125

Lab Sample ID: LCS 680-201734/2-A
Matrix: Water
Analysis Batch: 201977

Client Sample ID: LCS 680-201734/2-A
Prep Type: Total/NA
Prep Batch: 201734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Magnesium	5000	5300		ug/L		106	75 - 125
Mercury	5.00	4.61		ug/L		92	75 - 125
Zinc	100	120		ug/L		120	75 - 125

Method: 325.2 - Chloride

Lab Sample ID: MB 680-202657/6
Matrix: Water
Analysis Batch: 202657

Client Sample ID: MB 680-202657/6
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/11/11 15:04	1

Lab Sample ID: LCS 680-202657/2
Matrix: Water
Analysis Batch: 202657

Client Sample ID: LCS 680-202657/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	50000	50800		ug/L		102	85 - 115

Lab Sample ID: 680-67790-7 DU
Matrix: Water
Analysis Batch: 202657

Client Sample ID: MW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	3600		3590		ug/L		0.01	30

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-202674/1-A
Matrix: Water
Analysis Batch: 202820

Client Sample ID: MB 680-202674/1-A
Prep Type: Total/NA
Prep Batch: 202674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1

Lab Sample ID: LCS 680-202674/2-A
Matrix: Water
Analysis Batch: 202820

Client Sample ID: LCS 680-202674/2-A
Prep Type: Total/NA
Prep Batch: 202674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	1000	963		ug/L		96	75 - 125

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-201549/14
Matrix: Water
Analysis Batch: 201549

Client Sample ID: MB 680-201549/14
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	50	U	50	10	ug/L			04/28/11 16:30	1
Nitrate Nitrite as N	50	U	50	10	ug/L			04/28/11 16:30	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 16:30	1

Lab Sample ID: LCS 680-201549/15
Matrix: Water
Analysis Batch: 201549

Client Sample ID: LCS 680-201549/15
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	500	492		ug/L		98	
Nitrate Nitrite as N	1000	976		ug/L		98	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 680-201549/15
Matrix: Water
Analysis Batch: 201549

Client Sample ID: LCS 680-201549/15
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrite as N	500	484		ug/L		97	90 - 110

Method: 375.4 - Sulfate

Lab Sample ID: MB 680-202581/1
Matrix: Water
Analysis Batch: 202581

Client Sample ID: MB 680-202581/1
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5000	U	5000	2500	ug/L			05/11/11 12:05	1

Lab Sample ID: LCS 680-202581/2
Matrix: Water
Analysis Batch: 202581

Client Sample ID: LCS 680-202581/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	20000	18800		ug/L		94	75 - 125

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-202912/12
Matrix: Water
Analysis Batch: 202912

Client Sample ID: MB 680-202912/12
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	500	ug/L			05/13/11 09:35	1

Lab Sample ID: LCS 680-202912/13
Matrix: Water
Analysis Batch: 202912

Client Sample ID: LCS 680-202912/13
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	20000	21200		ug/L		106	80 - 120

GC/MS VOA

Analysis Batch: 201744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-201744/4	LCS 680-201744/4	Total/NA	Water	8260B	
680-67790-14	Trip Blank 1	Total/NA	Water	8260B	
680-67790-7	MW-8D	Total/NA	Water	8260B	
680-67790-9	MW-6	Total/NA	Water	8260B	
680-67790-11	SDB-MW-1	Total/NA	Water	8260B	
680-67790-12	SDB-MW-2	Total/NA	Water	8260B	
680-67790-13	SDB-MW-3	Total/NA	Water	8260B	
LCSD 680-201744/14	LCSD 680-201744/14	Total/NA	Water	8260B	
MB 680-201744/17	MB 680-201744/17	Total/NA	Water	8260B	
680-67790-8 - DL	MW-8U	Total/NA	Water	8260B	

Analysis Batch: 201920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-8	MW-8U	Total/NA	Water	8260B	
LCS 680-201920/14	LCS 680-201920/14	Total/NA	Water	8260B	
LCSD 680-201920/15	LCSD 680-201920/15	Total/NA	Water	8260B	
MB 680-201920/16	MB 680-201920/16	Total/NA	Water	8260B	

Analysis Batch: 201921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-201921/6	LCS 680-201921/6	Total/NA	Water	8260B	
LCSD 680-201921/7	LCSD 680-201921/7	Total/NA	Water	8260B	
MB 680-201921/9	MB 680-201921/9	Total/NA	Water	8260B	
680-67790-10	MW-3	Total/NA	Water	8260B	
680-67790-13 - DL	SDB-MW-3	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 201675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-7	MW-8D	Total/NA	Water	3520C	
680-67790-8	MW-8U	Total/NA	Water	3520C	
680-67790-9	MW-6	Total/NA	Water	3520C	
680-67790-10	MW-3	Total/NA	Water	3520C	
MB 680-201675/18-A	MB 680-201675/18-A	Total/NA	Water	3520C	
LCS 680-201675/19-A	LCS 680-201675/19-A	Total/NA	Water	3520C	
LCS 680-201675/22-A	LCS 680-201675/22-A	Total/NA	Water	3520C	

Analysis Batch: 202264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201675/18-A	MB 680-201675/18-A	Total/NA	Water	8270C LL	201675

Analysis Batch: 202342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-7	MW-8D	Total/NA	Water	8270C LL	201675
680-67790-8	MW-8U	Total/NA	Water	8270C LL	201675
680-67790-9	MW-6	Total/NA	Water	8270C LL	201675
680-67790-10	MW-3	Total/NA	Water	8270C LL	201675
LCS 680-201675/19-A	LCS 680-201675/19-A	Total/NA	Water	8270C LL	201675

GC/MS Semi VOA (Continued)

Analysis Batch: 203354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-201675/22-A	LCS 680-201675/22-A	Total/NA	Water	8270C LL	201675

GC VOA

Analysis Batch: 201557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-7	MW-8D	Total/NA	Water	8015B	
680-67790-8	MW-8U	Total/NA	Water	8015B	
680-67790-9	MW-6	Total/NA	Water	8015B	
680-67790-10	MW-3	Total/NA	Water	8015B	
680-67790-11	SDB-MW-1	Total/NA	Water	8015B	
680-67790-12	SDB-MW-2	Total/NA	Water	8015B	
680-67790-13	SDB-MW-3	Total/NA	Water	8015B	
LCS 680-201557/20	LCS 680-201557/20	Total/NA	Water	8015B	
LCSD 680-201557/21	LCSD 680-201557/21	Total/NA	Water	8015B	
MB 680-201557/22	MB 680-201557/22	Total/NA	Water	8015B	

Analysis Batch: 204798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-204798/2	LCS 680-204798/2	Total/NA	Water	8015B	
LCSD 680-204798/3	LCSD 680-204798/3	Total/NA	Water	8015B	
680-67790-7	MW-8D	Total/NA	Water	8015B	
680-67790-8	MW-8U	Total/NA	Water	8015B	
680-67790-9	MW-6	Total/NA	Water	8015B	
680-67790-10	MW-3	Total/NA	Water	8015B	
680-67790-11	SDB-MW-1	Total/NA	Water	8015B	
680-67790-12	SDB-MW-2	Total/NA	Water	8015B	
680-67790-13	SDB-MW-3	Total/NA	Water	8015B	
MB 680-204798/12	MB 680-204798/12	Total/NA	Water	8015B	

Metals

Prep Batch: 201734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201734/1-A	MB 680-201734/1-A	Total/NA	Water	3010A	
MB 680-201734/1-A	MB 680-201734/1-A	Total/NA	Water	3010A	
LCS 680-201734/2-A	LCS 680-201734/2-A	Total/NA	Water	3010A	
LCS 680-201734/2-A	LCS 680-201734/2-A	Total/NA	Water	3010A	
680-67790-7	MW-8D	Total/NA	Water	3010A	
680-67790-7	MW-8D	Total/NA	Water	3010A	
680-67790-8	MW-8U	Total/NA	Water	3010A	
680-67790-8	MW-8U	Total/NA	Water	3010A	
680-67790-8	MW-8U	Total/NA	Water	3010A	
680-67790-9	MW-6	Total/NA	Water	3010A	
680-67790-9	MW-6	Total/NA	Water	3010A	
680-67790-9	MW-6	Total/NA	Water	3010A	
680-67790-10	MW-3	Total/NA	Water	3010A	
680-67790-10	MW-3	Total/NA	Water	3010A	
680-67790-11	SDB-MW-1	Total/NA	Water	3010A	
680-67790-11	SDB-MW-1	Total/NA	Water	3010A	
680-67790-12	SDB-MW-2	Total/NA	Water	3010A	
680-67790-12	SDB-MW-2	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 201734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-12	SDB-MW-2	Total/NA	Water	3010A	
680-67790-13	SDB-MW-3	Total/NA	Water	3010A	
680-67790-13	SDB-MW-3	Total/NA	Water	3010A	

Analysis Batch: 201938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201734/1-A	MB 680-201734/1-A	Total/NA	Water	6020	201734
LCS 680-201734/2-A	LCS 680-201734/2-A	Total/NA	Water	6020	201734
680-67790-7	MW-8D	Total/NA	Water	6020	201734
680-67790-8	MW-8U	Total/NA	Water	6020	201734
680-67790-9	MW-6	Total/NA	Water	6020	201734
680-67790-10	MW-3	Total/NA	Water	6020	201734
680-67790-11	SDB-MW-1	Total/NA	Water	6020	201734
680-67790-12	SDB-MW-2	Total/NA	Water	6020	201734
680-67790-13	SDB-MW-3	Total/NA	Water	6020	201734

Analysis Batch: 201977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201734/1-A	MB 680-201734/1-A	Total/NA	Water	6020	201734
LCS 680-201734/2-A	LCS 680-201734/2-A	Total/NA	Water	6020	201734
680-67790-7	MW-8D	Total/NA	Water	6020	201734
680-67790-8	MW-8U	Total/NA	Water	6020	201734
680-67790-9	MW-6	Total/NA	Water	6020	201734
680-67790-10	MW-3	Total/NA	Water	6020	201734
680-67790-11	SDB-MW-1	Total/NA	Water	6020	201734
680-67790-12	SDB-MW-2	Total/NA	Water	6020	201734
680-67790-13	SDB-MW-3	Total/NA	Water	6020	201734

Analysis Batch: 202082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-8	MW-8U	Total/NA	Water	6020	201734
680-67790-9	MW-6	Total/NA	Water	6020	201734

Analysis Batch: 203262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-12	SDB-MW-2	Total/NA	Water	6020	201734

General Chemistry

Analysis Batch: 201549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201549/14	MB 680-201549/14	Total/NA	Water	353.2	
LCS 680-201549/15	LCS 680-201549/15	Total/NA	Water	353.2	
680-67790-7	MW-8D	Total/NA	Water	353.2	
680-67790-8	MW-8U	Total/NA	Water	353.2	
680-67790-9	MW-6	Total/NA	Water	353.2	
680-67790-10	MW-3	Total/NA	Water	353.2	
680-67790-11	SDB-MW-1	Total/NA	Water	353.2	
680-67790-12	SDB-MW-2	Total/NA	Water	353.2	
680-67790-13	SDB-MW-3	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 202581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202581/1	MB 680-202581/1	Total/NA	Water	375.4	
LCS 680-202581/2	LCS 680-202581/2	Total/NA	Water	375.4	
680-67790-7	MW-8D	Total/NA	Water	375.4	
680-67790-11	SDB-MW-1	Total/NA	Water	375.4	
680-67790-9	MW-6	Total/NA	Water	375.4	
680-67790-10	MW-3	Total/NA	Water	375.4	
680-67790-8	MW-8U	Total/NA	Water	375.4	
680-67790-12	SDB-MW-2	Total/NA	Water	375.4	
680-67790-13	SDB-MW-3	Total/NA	Water	375.4	

Analysis Batch: 202657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202657/2	LCS 680-202657/2	Total/NA	Water	325.2	
680-67790-11	SDB-MW-1	Total/NA	Water	325.2	
MB 680-202657/6	MB 680-202657/6	Total/NA	Water	325.2	
680-67790-7	MW-8D	Total/NA	Water	325.2	
680-67790-7 DU	MW-8D	Total/NA	Water	325.2	
680-67790-8	MW-8U	Total/NA	Water	325.2	
680-67790-13	SDB-MW-3	Total/NA	Water	325.2	
680-67790-10	MW-3	Total/NA	Water	325.2	
680-67790-12	SDB-MW-2	Total/NA	Water	325.2	
680-67790-9	MW-6	Total/NA	Water	325.2	

Prep Batch: 202674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202674/1-A	MB 680-202674/1-A	Total/NA	Water	351.2	
LCS 680-202674/2-A	LCS 680-202674/2-A	Total/NA	Water	351.2	
680-67790-7	MW-8D	Total/NA	Water	351.2	
680-67790-8	MW-8U	Total/NA	Water	351.2	
680-67790-9	MW-6	Total/NA	Water	351.2	
680-67790-10	MW-3	Total/NA	Water	351.2	
680-67790-11	SDB-MW-1	Total/NA	Water	351.2	
680-67790-12	SDB-MW-2	Total/NA	Water	351.2	
680-67790-13	SDB-MW-3	Total/NA	Water	351.2	

Analysis Batch: 202820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202674/1-A	MB 680-202674/1-A	Total/NA	Water	351.2	202674
LCS 680-202674/2-A	LCS 680-202674/2-A	Total/NA	Water	351.2	202674
680-67790-7	MW-8D	Total/NA	Water	351.2	202674
680-67790-9	MW-6	Total/NA	Water	351.2	202674
680-67790-12	SDB-MW-2	Total/NA	Water	351.2	202674
680-67790-13	SDB-MW-3	Total/NA	Water	351.2	202674
680-67790-8	MW-8U	Total/NA	Water	351.2	202674
680-67790-10	MW-3	Total/NA	Water	351.2	202674
680-67790-11	SDB-MW-1	Total/NA	Water	351.2	202674

Analysis Batch: 202912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202912/12	MB 680-202912/12	Total/NA	Water	9060	
LCS 680-202912/13	LCS 680-202912/13	Total/NA	Water	9060	
680-67790-7	MW-8D	Total/NA	Water	9060	

General Chemistry (Continued)

Analysis Batch: 202912 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67790-8	MW-8U	Total/NA	Water	9060	
680-67790-9	MW-6	Total/NA	Water	9060	
680-67790-10	MW-3	Total/NA	Water	9060	
680-67790-11	SDB-MW-1	Total/NA	Water	9060	
680-67790-12	SDB-MW-2	Total/NA	Water	9060	
680-67790-13	SDB-MW-3	Total/NA	Water	9060	

Client Sample ID: MW-8D

Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/02/11 21:39	RB	TAL SAV
Total/NA	Prep	3520C			1049.5 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 14:27	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 20:47	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 20:47	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201734	05/03/11 12:19	RA	TAL SAV
Total/NA	Analysis	6020		1			201938	05/04/11 14:16	BB	TAL SAV
Total/NA	Analysis	6020		1			201977	05/04/11 17:14	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201549	04/28/11 16:53	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	202581	05/11/11 12:05	JR	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	202657	05/11/11 15:04	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:39	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 11:06	TH	TAL SAV

Client Sample ID: MW-8U

Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	100	5 mL	5 mL	201744	05/02/11 22:08	RB	TAL SAV
Total/NA	Analysis	8260B		20	5 mL	5 mL	201920	05/03/11 23:46	RB	TAL SAV
Total/NA	Prep	3520C			1046.4 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 14:54	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 21:11	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 21:11	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201734	05/03/11 12:19	RA	TAL SAV
Total/NA	Analysis	6020		1			201938	05/04/11 14:20	BB	TAL SAV
Total/NA	Analysis	6020		1			201977	05/04/11 17:21	BR	TAL SAV
Total/NA	Analysis	6020		2			202082	05/05/11 11:48	BB	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201549	04/28/11 16:54	JR	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	202581	05/11/11 12:40	JR	TAL SAV
Total/NA	Analysis	325.2		5	2 mL	2 mL	202657	05/11/11 15:35	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		5			202820	05/12/11 16:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 11:23	TH	TAL SAV

Client Sample ID: MW-6

Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	5 mL	5 mL	201744	05/02/11 22:37	RB	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-6

Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			909.5 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 15:21	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 21:34	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 21:34	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201734	05/03/11 12:19	RA	TAL SAV
Total/NA	Analysis	6020		1			201938	05/04/11 14:24	BB	TAL SAV
Total/NA	Analysis	6020		1			201977	05/04/11 17:28	BR	TAL SAV
Total/NA	Analysis	6020		2			202082	05/05/11 11:52	BB	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201549	04/28/11 16:56	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	202581	05/11/11 12:38	JR	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	202657	05/11/11 16:01	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:39	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 11:41	TH	TAL SAV

Client Sample ID: MW-3

Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201921	05/03/11 14:32	RB	TAL SAV
Total/NA	Prep	3520C			1042.6 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 15:48	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 21:58	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 21:58	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201734	05/03/11 12:19	RA	TAL SAV
Total/NA	Analysis	6020		1			201938	05/04/11 14:27	BB	TAL SAV
Total/NA	Analysis	6020		1			201977	05/04/11 17:35	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201549	04/28/11 16:59	JR	TAL SAV
Total/NA	Analysis	375.4		2	2 mL	2 mL	202581	05/11/11 12:38	JR	TAL SAV
Total/NA	Analysis	325.2		3	2 mL	2 mL	202657	05/11/11 15:43	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		2			202820	05/12/11 16:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 12:06	TH	TAL SAV

Client Sample ID: SDB-MW-1

Date Collected: 04/26/11 14:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/02/11 23:34	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 22:22	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 22:22	TC	TAL SAV

Client Sample ID: SDB-MW-1

Lab Sample ID: 680-67790-11

Date Collected: 04/26/11 14:25

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	250 mL	201734	05/03/11 12:19	RA	TAL SAV
Total/NA	Analysis	6020		1			201938	05/04/11 14:31	BB	TAL SAV
Total/NA	Analysis	6020		1			201977	05/04/11 17:42	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201549	04/28/11 17:00	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	202581	05/11/11 12:34	JR	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	202657	05/11/11 15:01	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		5			202820	05/12/11 16:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 12:25	TH	TAL SAV

Client Sample ID: SDB-MW-2

Lab Sample ID: 680-67790-12

Date Collected: 04/26/11 15:20

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/03/11 00:03	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 22:46	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 22:46	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201734	05/03/11 12:19	RA	TAL SAV
Total/NA	Analysis	6020		1			201938	05/04/11 14:35	BB	TAL SAV
Total/NA	Analysis	6020		1			201977	05/04/11 17:49	BR	TAL SAV
Total/NA	Analysis	6020		2			203262	05/17/11 15:49	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201549	04/28/11 17:02	JR	TAL SAV
Total/NA	Analysis	375.4		50	2 mL	2 mL	202581	05/11/11 13:25	JR	TAL SAV
Total/NA	Analysis	325.2		3	2 mL	2 mL	202657	05/11/11 15:43	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:39	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 12:44	TH	TAL SAV

Client Sample ID: SDB-MW-3

Lab Sample ID: 680-67790-13

Date Collected: 04/26/11 16:10

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/03/11 00:32	RB	TAL SAV
Total/NA	Analysis	8260B	DL	20	5 mL	5 mL	201921	05/03/11 16:59	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 23:10	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 23:10	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201734	05/03/11 12:19	RA	TAL SAV
Total/NA	Analysis	6020		1			201938	05/04/11 14:39	BB	TAL SAV
Total/NA	Analysis	6020		1			201977	05/04/11 17:56	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201549	04/28/11 17:03	JR	TAL SAV
Total/NA	Analysis	375.4		50	2 mL	2 mL	202581	05/11/11 13:25	JR	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-3

Lab Sample ID: 680-67790-13

Date Collected: 04/26/11 16:10

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	325.2		5	2 mL	2 mL	202657	05/11/11 15:35	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:39	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 13:01	TH	TAL SAV

Client Sample ID: Trip Blank 1

Lab Sample ID: 680-67790-14

Date Collected: 04/26/11 00:00

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/02/11 19:44	RB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 024915

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Corrective Action

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Aqualon	1201555	
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Erin Wright	CLIENT PHONE	CLIENT FAX
CLIENT NAME: GES	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◯
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: App IX 8 VOCs	App IX VOCs	Alcohols	TAL Metals	Chlorides	Sulfate	Nitrates	Nitrites	TKN	TOC	REMARKS
4/26	0925	MW-8D						X	X	X	X	X	X	X	X	X	X	
	1120	MW-8U						↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	1445	MW-6																
	1555	MW-3																
	1425	SDB-MW-1																
	1520	SDB-MW-2																
	1610	SDB-MW-3																
↓	/	Trip Blank 1							↓									

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Kate Hamm	4/26/11	1900						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
George Klaus	4/28/11	1003	YES ◯ NO ◯		680-67790	0.4/0.2/0.6/4.2/1.2/0.1/0.8°C

TAL8240-680 (1207)

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-67790-1
SDG Number: HAQ034

Login Number: 67790
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	7 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1 - 4.2 C Temp Range
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	MW-8D Sulfide containers not labeled
Samples are received within Holding Time.	True	NO3/NO2/Fe+2/oPhos holds exceeded due to transport delay.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	1 liter MW-8U rec'd broken/1-16 oz glass GSB-3 (28-33) rec'd broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP	0	0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025	0	399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA	0	SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-67794-1
TestAmerica Sample Delivery Group: HAQ035
Client Project/Site: Aqualon Hopewell - GW CA APR 2011

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Bruce Hough

Authorized for release by:
06/07/2011 01:00:06 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Erin Wright

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

LINKS

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Visit us at: www.testamericainc.com

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Job ID: 680-67794-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-67794-1

Receipt
One amber liter for cleint sample WWL-3U was received broken upon receipt.

Additional acid was added upon receipt to adjust the pH to <2 for the metals containers of samples Field Dup and NAT-3 and for the TOC containers for samples Field Dup, NAT-3 and NAT-2.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The method blank for batch 202151 contained 1,2,3-trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) and was not detected in associated samples; therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 201948 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: 2-methyl-2-propanol (TBA) was detected above half the reporting limit (RL) in the following sample: WWL-3U (680-67794-11). It is suspected that this was a false positive detection, resulting from carryover from the sample that was analyzed immediately preceding. The sample was reanalyzed outside of analytical hold and 1-methyl-2-propanol (TBA) was not detected.

Method(s) 8260B: Sample WWL-3U (680-67794-11) was re-analyzed outside or analytical holding time to confirm the presence of 2-methyl-2-propanol (TBA). A continuing calibration standard (CCV) containing the following site-specific non-routine compounds was not analyzed in assosication with this sample's reanalysis run: ethylene oxide, propylene oxide and benzyl chloride. These compounds are not reported in the reanalysis (RA) run of the sample.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C LL: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 201990 exceeded control limits for the following analytes: pentachlorophenol.

Method(s) 8270C LL: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 201990 exceeded control limits for the following analyte(s): methapyrilene and hexachlorophene. These analytes have been identified as a poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C LL: The LCSD extract associated with batch 201990 and spiked with Appendix 9 target compounds was broken before it could be analyzed. As a result, precision is not available for all target analytes.

Method(s) 8270C LL: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 201675 had 3 analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 201675 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

GC VOA
Method(s) 8015B: The following sample(s) required a dilution which was performed outside of the analytical holding time: NAT-2 (680-67837-5), Field Dup (680-67837-3), and NAT-3 (680-67837-4).

Job ID: 680-67794-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Method(s) 8015B: Manual integration was performed on the following sample(s): CCVIS 680-201557/19 and calibrants in the Initial calibration.

No other analytical or quality issues were noted.

Metals

Method(s) 3010A: During pH adjustment, the following samples required 1milliliter (mL) of nitric acid to reach the desired pH: Field Dup (680-67837-3), NAT-3 (680-67837-4). Typically, most samples take less than 1mL to reach the desired range.

Method(s) 6020: Due to the high concentration of calcium and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-201782 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-201782 were outside control limits for magnesium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6020: Due to the high concentration of calcium, iron, magnesium, manganese, and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-201784 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 325.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 202965 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 325.2: Due to the high concentration of Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for batch 203198 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 351.2: Due to the high concentration of TKN, the matrix spike / matrix spike duplicate (MS/MSD) for batch 203380 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for sample MW-4 (680-67898-2 MS), MW-4 (680-67898-2 MSD) were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 375.4, 9038: The matrix spike duplicate (MSD) recoveries for batch 202914 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 375.4: The matrix spike duplicate (MSD) recoveries for batch 203200 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 353.2: The Nitrate results for Lab ID 67837-3 (Field Dup) and 67837-4 (NAT-3) were rechecked and reanalyzed due to a disparity in results for samples appearing to be field duplicates. The results of the reanalyses confirmed the original results and data has been reported as originally derived.

No other analytical or quality issues were noted.

Comments

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-67794-1	LF-5	Water	04/27/11 09:30	04/28/11 10:03
680-67794-2	LF-4	Water	04/27/11 10:50	04/28/11 10:03
680-67794-3	LF-1	Water	04/27/11 09:15	04/28/11 10:03
680-67794-4	LF-2	Water	04/27/11 11:10	04/28/11 10:03
680-67794-5	LF-3	Water	04/27/11 12:20	04/28/11 10:03
680-67794-6	WWL-2	Water	04/27/11 12:45	04/28/11 10:03
680-67794-7	WWL-1	Water	04/27/11 14:35	04/28/11 10:03
680-67794-8	Trip Blank 2	Water	04/27/11 00:00	04/28/11 10:03
680-67794-9	Equipment Blank	Water	04/27/11 12:45	04/28/11 10:03
680-67794-10	WWL-3L	Water	04/27/11 16:25	04/28/11 10:03
680-67794-11	WWL-3U	Water	04/27/11 14:30	04/28/11 10:03
680-67837-1	RAB-MW2	Water	04/28/11 10:05	04/29/11 09:28
680-67837-2	RAB-MW4	Water	04/28/11 11:00	04/29/11 09:28
680-67837-3	Field Dup	Water	04/28/11 00:00	04/29/11 09:28
680-67837-4	NAT-3	Water	04/28/11 10:45	04/29/11 09:28
680-67837-5	NAT-2	Water	04/28/11 12:20	04/29/11 09:28
680-67837-6	NAT-1	Water	04/28/11 14:40	04/29/11 09:28
680-67837-7	RAB-MW3	Water	04/28/11 12:15	04/29/11 09:28
680-67837-8	MW-10	Water	04/28/11 14:40	04/29/11 09:28
680-67837-9	Field Blank	Water	04/28/11 00:00	04/29/11 09:28
680-67837-10	MW-7U	Water	04/28/11 16:35	04/29/11 09:28
680-67837-11	MW-7L	Water	04/28/11 16:40	04/29/11 09:28
680-67837-12	Trip Blank 3	Water	04/28/11 00:00	04/29/11 09:28

Method Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL SAV
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	TAL SAV
6020	Metals (ICP/MS)	SW846	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
9060	Organic Carbon, Total (TOC)	SW846	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 01:01	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 01:01	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 01:01	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 01:01	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 01:01	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 01:01	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 01:01	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 01:01	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 01:01	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 01:01	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 01:01	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 01:01	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 01:01	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:01	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 01:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 01:01	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 01:01	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 01:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
1,1-Dichloroethane	**0.30**	**J**	1.0	0.25	ug/L			05/03/11 01:01	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:01	1
1,1-Dichloroethene	**0.12**	**J**	1.0	0.11	ug/L			05/03/11 01:01	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 01:01	1
Diethyl ether	**35**		10	1.0	ug/L			05/03/11 01:01	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 01:01	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 01:01	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 01:01	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 01:01	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 01:01	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 01:01	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 01:01	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 01:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 01:01	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 01:01	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 01:01	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 01:01	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 01:01	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 01:01	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 01:01	1
t-Butanol	**12**		5.0	2.6	ug/L			05/03/11 01:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 01:01	1

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:01	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 01:01	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 01:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 01:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 01:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 01:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 01:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 01:01	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 01:01	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 01:01	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 01:01	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 01:01	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 01:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 01:01*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/03/11 01:01*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/03/11 01:01*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 01:01*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Acetophenone	**0.25**	**J B**	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/03/11 14:47	05/09/11 16:43	1
Aniline	2.0	U	2.0	0.97	ug/L		05/03/11 14:47	05/09/11 16:43	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Bis(2-ethylhexyl) phthalate	**1.2**	**J**	2.0	0.64	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
Butyl benzyl phthalate	**0.17**	**J**	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.20	U	0.20	0.045	ug/L		05/03/11 14:47	05/09/11 16:43	1
Diallate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,4-Dichlorobenzene	**0.28**	**J B**	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dichlorophenol	1.0	U *	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/03/11 14:47	05/09/11 16:43	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/09/11 16:43	1
3,3'-Dimethylbenzidine	20	U *	20	5.0	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dimethylphenol	2.0	U *	2.0	0.69	ug/L		05/03/11 14:47	05/09/11 16:43	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/03/11 14:47	05/09/11 16:43	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,4-Dioxane	**0.83**	**J**	2.0	0.31	ug/L		05/03/11 14:47	05/09/11 16:43	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Famphur	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/09/11 16:43	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorophene	500	U *	500	25	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Methapyrilene	200	U	200	1.3	ug/L		05/03/11 14:47	05/09/11 16:43	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/03/11 14:47	05/09/11 16:43	1
3 & 4 Methylphenol	2.0	U *	2.0	0.66	ug/L		05/03/11 14:47	05/09/11 16:43	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/09/11 16:43	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/09/11 16:43	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
o,o',o''-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenol	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phorate	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/09/11 16:43	1
p-Phenylene diamine	200	U	200	16	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/03/11 14:47	05/09/11 16:43	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/09/11 16:43	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*19*	*T A J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 16:43*	*1*
Unknown	*1.7*	*T J*	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 16:43*	*1*
Unknown	*9.8*	*T J*	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 16:43*	*1*

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Organic Acid	4.6	T J	ug/L		8.67		05/03/11 14:47	05/09/11 16:43	1
Oleic Acid	7.0	T J N	ug/L		12.15	112-80-1	05/03/11 14:47	05/09/11 16:43	1
Unknown	7.1	T J	ug/L		12.35		05/03/11 14:47	05/09/11 16:43	1
Tetracosane	1.7	T J N	ug/L		13.26	646-31-1	05/03/11 14:47	05/09/11 16:43	1
(Carbethoxyethylidine)triphenylphosphora	14	T J N	ug/L		14.00	5717-37-3	05/03/11 14:47	05/09/11 16:43	1
Unknown	1.9	T J	ug/L		14.04		05/03/11 14:47	05/09/11 16:43	1
Nonadecane	1.3	T J N	ug/L		15.52	629-92-5	05/03/11 14:47	05/09/11 16:43	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		34 - 130	05/03/11 14:47	05/09/11 16:43	1
2-Fluorophenol	47		25 - 130	05/03/11 14:47	05/09/11 16:43	1
Nitrobenzene-d5	55		32 - 130	05/03/11 14:47	05/09/11 16:43	1
Phenol-d5	44		27 - 130	05/03/11 14:47	05/09/11 16:43	1
Terphenyl-d14	62		36 - 130	05/03/11 14:47	05/09/11 16:43	1
2,4,6-Tribromophenol	64		30 - 130	05/03/11 14:47	05/09/11 16:43	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 23:34	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 23:34	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 23:34	1
Methanol	1000	U	1000	830	ug/L			04/29/11 23:34	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**83**	**J**	100	50	ug/L		05/03/11 17:33	05/05/11 20:35	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:35	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 20:35	1
Barium	**140**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 20:35	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 20:35	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 20:35	1
Calcium	**150000**		500	170	ug/L		05/03/11 17:33	05/05/11 20:35	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 20:35	1
Cobalt	**0.36**	**J**	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 20:35	1
Copper	**1.1**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 20:35	1
Iron	**4200**		100	44	ug/L		05/03/11 17:33	05/05/11 20:35	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 20:35	1
Magnesium	**11000**		250	100	ug/L		05/03/11 17:33	05/05/11 20:35	1
Manganese	**980**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:35	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 20:35	1
Nickel	**2.5**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:35	1
Potassium	**6300**		1000	330	ug/L		05/03/11 17:33	05/05/11 20:35	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 20:35	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 20:35	1
Sodium	**49000**		500	170	ug/L		05/03/11 17:33	05/05/11 20:35	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 20:35	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 20:35	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:33	05/05/11 20:35	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130000**		2000	360	ug/L			05/14/11 13:00	2
Nitrogen, Kjeldahl	**340**		200	150	ug/L		05/11/11 19:55	05/13/11 12:58	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:09	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:09	1
Sulfate	**180000**		50000	25000	ug/L			05/13/11 14:19	10
Total Organic Carbon	**1300**		1000	500	ug/L			05/13/11 10:11	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 01:29	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 01:29	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 01:29	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 01:29	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 01:29	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 01:29	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 01:29	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 01:29	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 01:29	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 01:29	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 01:29	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 01:29	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 01:29	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:29	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 01:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 01:29	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 01:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:29	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 01:29	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 01:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 01:29	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 01:29	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 01:29	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 01:29	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 01:29	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 01:29	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 01:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 01:29	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 01:29	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 01:29	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 01:29	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 01:29	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 01:29	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 01:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 01:29	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:29	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 01:29	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 01:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 01:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 01:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 01:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 01:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 01:29	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 01:29	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 01:29	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 01:29	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 01:29	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 01:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 01:29*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/03/11 01:29*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 01:29*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 01:29*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 17:10	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 17:10	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 17:10	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,4-Dichlorobenzene	**0.11**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dichlorophenol	0.95	U *	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 17:10	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:10	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 17:10	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 17:10	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/09/11 17:10	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:10	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 17:10	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 17:10	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:10	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:10	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 17:10	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:10	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*27*	*T A J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 17:10*	*1*
Unknown	*1.4*	*T J*	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 17:10*	*1*
Unknown	*6.3*	*T J*	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 17:10*	*1*

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.2	T J	ug/L		8.65		05/03/11 14:47	05/09/11 17:10	1
Unknown	1.3	T J	ug/L		12.14		05/03/11 14:47	05/09/11 17:10	1
Unknown	1.4	T J	ug/L		12.17		05/03/11 14:47	05/09/11 17:10	1
Unknown	4.4	T J	ug/L		12.35		05/03/11 14:47	05/09/11 17:10	1
Octadecanoic acid, butyl ester	2.9	T J N	ug/L		13.21	123-95-5	05/03/11 14:47	05/09/11 17:10	1
(Carbethoxyethylidine)triphenylphosphora	20	T J N	ug/L		13.99	5717-37-3	05/03/11 14:47	05/09/11 17:10	1
Hexadecane	2.0	T J N	ug/L		14.05	544-76-3	05/03/11 14:47	05/09/11 17:10	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		34 - 130	05/03/11 14:47	05/09/11 17:10	1
2-Fluorophenol	55		25 - 130	05/03/11 14:47	05/09/11 17:10	1
Nitrobenzene-d5	61		32 - 130	05/03/11 14:47	05/09/11 17:10	1
Phenol-d5	54		27 - 130	05/03/11 14:47	05/09/11 17:10	1
Terphenyl-d14	76		36 - 130	05/03/11 14:47	05/09/11 17:10	1
2,4,6-Tribromophenol	73		30 - 130	05/03/11 14:47	05/09/11 17:10	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 21:11	1
Ethanol	1000	U	1000	330	ug/L			05/10/11 18:04	1
Isopropanol	1000	U	1000	300	ug/L			05/10/11 18:04	1
Methanol	1000	U	1000	830	ug/L			05/10/11 18:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	50	ug/L		05/03/11 17:33	05/05/11 21:10	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:10	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:10	1
Barium	**76**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:10	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:10	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:10	1
Calcium	**46000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:10	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:10	1
Cobalt	**0.16**	**J**	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:10	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:10	1
Iron	**2300**		100	44	ug/L		05/03/11 17:33	05/05/11 21:10	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:10	1
Magnesium	**2800**		250	100	ug/L		05/03/11 17:33	05/05/11 21:10	1
Manganese	**290**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:10	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:10	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:10	1
Potassium	**4000**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:10	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:10	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:10	1
Sodium	**12000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:10	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:10	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:10	1
Zinc	**31**		20	8.4	ug/L		05/03/11 17:33	05/05/11 21:10	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8100**		2000	360	ug/L			05/14/11 13:02	2
Nitrogen, Kjeldahl	**210**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:15	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:15	1
Sulfate	**18000**		5000	2500	ug/L			05/13/11 14:17	1
Total Organic Carbon	**600**	**J**	1000	500	ug/L			05/13/11 13:59	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 14:03	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 14:03	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 14:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 14:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 14:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 14:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 14:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 14:03	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 14:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 14:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 14:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 14:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 14:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 14:03	1
cis-1,2-Dichloroethene	**0.16**	**J**	1.0	0.15	ug/L			05/03/11 14:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 14:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 14:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 14:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
1,1-Dichloroethane	**2.4**		1.0	0.25	ug/L			05/03/11 14:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:03	1
1,1-Dichloroethene	**2.5**		1.0	0.11	ug/L			05/03/11 14:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 14:03	1
Diethyl ether	**78**		10	1.0	ug/L			05/03/11 14:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 14:03	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 14:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 14:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 14:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 14:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 14:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 14:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 14:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 14:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 14:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 14:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 14:03	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 14:03	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 14:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 14:03	1
t-Butanol	**44**		5.0	2.6	ug/L			05/03/11 14:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 14:03	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 14:03	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 14:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 14:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 14:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 14:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 14:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 14:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 14:03	1
Trichloroethylene	**0.62**	**J**	1.0	0.13	ug/L			05/03/11 14:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 14:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 14:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 14:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 14:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methyl naphthalene isomer	*11*	*T J N*	*ug/L*		*6.60*			*05/03/11 14:03*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/03/11 14:03*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/03/11 14:03*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 14:03*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Aminobiphenyl	4.8	U	4.8	0.29	ug/L		05/03/11 14:47	05/09/11 17:38	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 17:38	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 17:38	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,4-Dichlorobenzene	**0.16**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dichlorophenol	0.95	U *	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 17:38	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:38	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 17:38	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 17:38	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,4-Dioxane	**2.3**		1.9	0.29	ug/L		05/03/11 14:47	05/09/11 17:38	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:38	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 17:38	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 17:38	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:38	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:38	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pyridine	4.8	U	4.8	0.69	ug/L		05/03/11 14:47	05/09/11 17:38	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:38	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*34*	*T A J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 17:38*	*1*
Unknown	*1.1*	*T J*	*ug/L*		*4.96*		*05/03/11 14:47*	*05/09/11 17:38*	*1*
Unknown	*10*	*T J*	*ug/L*		*5.04*		*05/03/11 14:47*	*05/09/11 17:38*	*1*

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.3	T J	ug/L		5.13		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.8	T J	ug/L		6.10		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.9	T J	ug/L		7.13		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.3	T J	ug/L		7.92		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.7	T J	ug/L		8.65		05/03/11 14:47	05/09/11 17:38	1
Unknown Organic Acid	2.2	T J	ug/L		12.15		05/03/11 14:47	05/09/11 17:38	1
(Carbethoxyethylidine)triphenylphosphora	18	T J N	ug/L		13.99	5717-37-3	05/03/11 14:47	05/09/11 17:38	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		34 - 130	05/03/11 14:47	05/09/11 17:38	1
2-Fluorophenol	63		25 - 130	05/03/11 14:47	05/09/11 17:38	1
Nitrobenzene-d5	72		32 - 130	05/03/11 14:47	05/09/11 17:38	1
Phenol-d5	60		27 - 130	05/03/11 14:47	05/09/11 17:38	1
Terphenyl-d14	79		36 - 130	05/03/11 14:47	05/09/11 17:38	1
2,4,6-Tribromophenol	81		30 - 130	05/03/11 14:47	05/09/11 17:38	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 21:35	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 05:53	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 05:53	1
Methanol	1000	U	1000	830	ug/L			05/08/11 05:53	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**590**		100	50	ug/L		05/03/11 17:33	05/05/11 21:17	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:17	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:17	1
Barium	**120**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:17	1
Beryllium	**0.26**	**J**	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:17	1
Cadmium	**0.91**		0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:17	1
Calcium	**140000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:17	1
Chromium	**2.6**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:17	1
Cobalt	**0.37**	**J**	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:17	1
Copper	**1.6**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:17	1
Iron	**8200**		100	44	ug/L		05/03/11 17:33	05/05/11 21:17	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:17	1
Magnesium	**14000**		250	100	ug/L		05/03/11 17:33	05/05/11 21:17	1
Manganese	**1700**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:17	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:17	1
Nickel	**2.4**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:17	1
Potassium	**8200**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:17	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:17	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:17	1
Sodium	**88000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:17	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:17	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:17	1
Zinc	**14**	**J**	20	8.4	ug/L		05/03/11 17:33	05/05/11 21:17	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120000**		2000	360	ug/L			05/14/11 13:00	2
Nitrogen, Kjeldahl	**500**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**59**		50	10	ug/L			04/28/11 17:16	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:16	1
Sulfate	**330000**		50000	25000	ug/L			05/13/11 14:21	10
Total Organic Carbon	**1400**		1000	500	ug/L			05/13/11 14:30	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-2
Date Collected: 04/27/11 11:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 13:06	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 13:06	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 13:06	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 13:06	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 13:06	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 13:06	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 13:06	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 13:06	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 13:06	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 13:06	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 13:06	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 13:06	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 13:06	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:06	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 13:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 13:06	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 13:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
1,1-Dichloroethane	**0.28**	**J**	1.0	0.25	ug/L			05/03/11 13:06	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:06	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 13:06	1
Diethyl ether	**30**		10	1.0	ug/L			05/03/11 13:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 13:06	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 13:06	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 13:06	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 13:06	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 13:06	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 13:06	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 13:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 13:06	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 13:06	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 13:06	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 13:06	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 13:06	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 13:06	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
t-Butanol	**30**		5.0	2.6	ug/L			05/03/11 13:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 13:06	1

Client Sample ID: LF-2
Date Collected: 04/27/11 11:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:06	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 13:06	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 13:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 13:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 13:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 13:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 13:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 13:06	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 13:06	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 13:06	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 13:06	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 13:06	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 13:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 13:06*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/03/11 13:06*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/03/11 13:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/03/11 13:06*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 21:59	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 06:17	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 06:17	1
Methanol	**2600**		1000	830	ug/L			05/08/11 06:17	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**150**		100	50	ug/L		05/03/11 17:33	05/05/11 21:24	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:24	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:24	1
Barium	**91**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:24	1
Beryllium	**0.17**	**J**	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:24	1
Cadmium	**6.4**		0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:24	1
Calcium	**100000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:24	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:24	1
Cobalt	**0.55**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:24	1
Copper	**1.2**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:24	1
Iron	**6000**		100	44	ug/L		05/03/11 17:33	05/05/11 21:24	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:24	1
Magnesium	**8900**		250	100	ug/L		05/03/11 17:33	05/05/11 21:24	1
Manganese	**970**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:24	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:24	1
Nickel	**4.0**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:24	1
Potassium	**7300**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:24	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:24	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:24	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-2
Date Collected: 04/27/11 11:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**54000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:24	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:24	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:24	1
Zinc	**19**	**J**	20	8.4	ug/L		05/03/11 17:33	05/05/11 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94000**		2000	360	ug/L			05/14/11 13:05	2
Nitrogen, Kjeldahl	**340**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**100**		50	10	ug/L			04/28/11 17:17	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:17	1
Sulfate	**170000**		50000	25000	ug/L			05/13/11 14:39	10
Total Organic Carbon	**1200**		1000	500	ug/L			05/13/11 14:46	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 01:55	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 01:55	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 01:55	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 01:55	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 01:55	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 01:55	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 01:55	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 01:55	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 01:55	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 01:55	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 01:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 01:55	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 01:55	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 01:55	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 01:55	1
cis-1,2-Dichloroethene	**0.20**	**J**	1.0	0.15	ug/L			05/04/11 01:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 01:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 01:55	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 01:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 01:55	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 01:55	1
Diethyl ether	**5.9**	**J**	10	1.0	ug/L			05/04/11 01:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 01:55	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 01:55	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 01:55	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 01:55	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 01:55	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 01:55	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 01:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 01:55	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 01:55	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 01:55	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 01:55	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 01:55	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 01:55	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
t-Butanol	**390**	**E**	5.0	2.6	ug/L			05/04/11 01:55	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 01:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 01:55	1

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 01:55	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 01:55	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 01:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 01:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 01:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 01:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 01:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 01:55	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 01:55	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 01:55	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 01:55	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 01:55	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 01:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 01:55*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/04/11 01:55*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/04/11 01:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 01:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/03/11 15:01	20
Acetonitrile	800	U	800	200	ug/L			05/03/11 15:01	20
Acrolein	400	U	400	150	ug/L			05/03/11 15:01	20
Acrylonitrile	400	U	400	140	ug/L			05/03/11 15:01	20
Allyl chloride	20	U	20	4.0	ug/L			05/03/11 15:01	20
Benzene	20	U	20	5.0	ug/L			05/03/11 15:01	20
Benzyl chloride	20	U	20	20	ug/L			05/03/11 15:01	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
Bromoform	20	U	20	10	ug/L			05/03/11 15:01	20
Bromomethane	20	U	20	16	ug/L			05/03/11 15:01	20
2-Butanone	200	U	200	20	ug/L			05/03/11 15:01	20
Carbon disulfide	40	U	40	12	ug/L			05/03/11 15:01	20
Carbon tetrachloride	20	U	20	10	ug/L			05/03/11 15:01	20
Chlorobenzene	20	U	20	5.0	ug/L			05/03/11 15:01	20
Chloroethane	20	U	20	20	ug/L			05/03/11 15:01	20
Chloroform	20	U	20	2.8	ug/L			05/03/11 15:01	20
Chloromethane	20	U	20	6.6	ug/L			05/03/11 15:01	20
Chloroprene	20	U	20	6.0	ug/L			05/03/11 15:01	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/03/11 15:01	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/03/11 15:01	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/03/11 15:01	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/03/11 15:01	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
Dibromomethane	20	U	20	4.0	ug/L			05/03/11 15:01	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/03/11 15:01	20

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/03/11 15:01	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/03/11 15:01	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/03/11 15:01	20
Diethyl ether	200	U	200	20	ug/L			05/03/11 15:01	20
Ethylbenzene	20	U	20	2.2	ug/L			05/03/11 15:01	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/03/11 15:01	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/03/11 15:01	20
2-Hexanone	200	U	200	20	ug/L			05/03/11 15:01	20
Iodomethane	100	U	100	20	ug/L			05/03/11 15:01	20
Isobutyl alcohol	800	U	800	220	ug/L			05/03/11 15:01	20
Methacrylonitrile	400	U	400	66	ug/L			05/03/11 15:01	20
Methylene Chloride	100	U	100	20	ug/L			05/03/11 15:01	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/03/11 15:01	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/03/11 15:01	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/03/11 15:01	20
n-Heptane	20	U	20	8.4	ug/L			05/03/11 15:01	20
Pentachloroethane	100	U	100	24	ug/L			05/03/11 15:01	20
Propionitrile	400	U	400	92	ug/L			05/03/11 15:01	20
Propylene oxide	4000	U	4000	4000	ug/L			05/03/11 15:01	20
Styrene	20	U	20	2.2	ug/L			05/03/11 15:01	20
t-Butanol	**300**	**D**	100	52	ug/L			05/03/11 15:01	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/03/11 15:01	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/03/11 15:01	20
Tetrachloroethene	20	U	20	3.0	ug/L			05/03/11 15:01	20
Toluene	20	U	20	6.6	ug/L			05/03/11 15:01	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/03/11 15:01	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/03/11 15:01	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/03/11 15:01	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/03/11 15:01	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/03/11 15:01	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/03/11 15:01	20
Trichloroethylene	20	U	20	2.6	ug/L			05/03/11 15:01	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/03/11 15:01	20
Vinyl acetate	40	U	40	5.6	ug/L			05/03/11 15:01	20
Vinyl chloride	20	U	20	3.6	ug/L			05/03/11 15:01	20
Xylenes, Total	40	U	40	4.0	ug/L			05/03/11 15:01	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 15:01*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/03/11 15:01*	*20*
Dibromofluoromethane	*97*		*70 - 130*		*05/03/11 15:01*	*20*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/03/11 15:01*	*20*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/03/11 14:47	05/09/11 18:05	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 18:05	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 18:05	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,4-Dichlorobenzene	**0.12**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dichlorophenol	0.95	U *	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 18:05	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:05	1
3,3'-Dimethylbenzidine	19	U *	19	4.7	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dimethylphenol	1.9	U *	1.9	0.65	ug/L		05/03/11 14:47	05/09/11 18:05	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 18:05	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,4-Dioxane	**14**		1.9	0.29	ug/L		05/03/11 14:47	05/09/11 18:05	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:05	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorophene	470	U *	470	24	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 18:05	1
3 & 4 Methylphenol	1.9	U *	1.9	0.62	ug/L		05/03/11 14:47	05/09/11 18:05	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:05	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:05	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/03/11 14:47	05/09/11 18:05	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:05	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*44*	*T A J*	*ug/L*		*4.00*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*200*	*T J*	*ug/L*		*6.12*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*220*	*T J*	*ug/L*		*7.97*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*170*	*T J*	*ug/L*		*9.58*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*18*	*T J*	*ug/L*		*9.88*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*42*	*T J*	*ug/L*		*9.92*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*120*	*T J*	*ug/L*		*11.00*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*21*	*T J*	*ug/L*		*12.27*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*11*	*T J*	*ug/L*		*14.00*		*05/03/11 14:47*	*05/09/11 18:05*	*1*
Unknown	*11*	*T J*	*ug/L*		*14.64*		*05/03/11 14:47*	*05/09/11 18:05*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*34 - 130*	*05/03/11 14:47*	*05/09/11 18:05*	*1*
2-Fluorophenol	*56*		*25 - 130*	*05/03/11 14:47*	*05/09/11 18:05*	*1*
Nitrobenzene-d5	*69*		*32 - 130*	*05/03/11 14:47*	*05/09/11 18:05*	*1*
Phenol-d5	*64*		*27 - 130*	*05/03/11 14:47*	*05/09/11 18:05*	*1*
Terphenyl-d14	*71*		*36 - 130*	*05/03/11 14:47*	*05/09/11 18:05*	*1*
2,4,6-Tribromophenol	*75*		*30 - 130*	*05/03/11 14:47*	*05/09/11 18:05*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 22:23	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 06:40	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 06:40	1
Methanol	**1700**		1000	830	ug/L			05/08/11 06:40	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**840**		100	50	ug/L		05/03/11 17:33	05/05/11 21:45	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:45	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:45	1
Barium	**190**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:45	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:45	1
Cadmium	**0.55**		0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:45	1
Calcium	**92000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:45	1
Chromium	**3.0**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:45	1
Cobalt	**12**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:45	1
Copper	**2.7**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:45	1
Iron	**4400**		100	44	ug/L		05/03/11 17:33	05/05/11 21:45	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:45	1
Magnesium	**28000**		250	100	ug/L		05/03/11 17:33	05/05/11 21:45	1
Manganese	**6100**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:45	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:45	1
Nickel	**16**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:45	1
Potassium	**6800**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:45	1
Selenium	**1.4**	**J**	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:45	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:45	1
Sodium	**280000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:45	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:45	1
Vanadium	**3.9**	**J**	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:45	1
Zinc	**62**		20	8.4	ug/L		05/03/11 17:33	05/05/11 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180000**		2000	360	ug/L			05/14/11 13:05	2
Nitrogen, Kjeldahl	**1800**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**96**		50	10	ug/L			04/28/11 17:19	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:19	1
Sulfate	**350000**		100000	50000	ug/L			05/13/11 14:40	20
Total Organic Carbon	**3600**		1000	500	ug/L			05/13/11 15:04	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-2
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 13:34	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 13:34	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 13:34	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 13:34	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 13:34	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 13:34	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 13:34	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 13:34	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 13:34	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 13:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 13:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 13:34	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 13:34	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:34	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 13:34	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 13:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:34	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 13:34	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 13:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 13:34	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 13:34	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 13:34	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 13:34	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 13:34	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 13:34	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 13:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 13:34	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 13:34	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 13:34	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 13:34	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 13:34	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 13:34	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
t-Butanol	**73**		5.0	2.6	ug/L			05/03/11 13:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 13:34	1

Client Sample ID: WWL-2
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:34	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 13:34	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 13:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 13:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 13:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 13:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 13:34	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 13:34	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 13:34	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 13:34	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 13:34	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 13:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 13:34*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 13:34*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/03/11 13:34*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 13:34*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 22:46	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 07:04	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 07:04	1
Methanol	1000	U	1000	830	ug/L			05/08/11 07:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1900**		100	50	ug/L		05/03/11 17:33	05/06/11 02:11	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:11	1
Arsenic	**5.0**		2.5	1.3	ug/L		05/03/11 17:33	05/06/11 02:11	1
Barium	**2100**		5.0	1.4	ug/L		05/03/11 17:33	05/06/11 02:11	1
Beryllium	**0.16**	**J**	0.50	0.15	ug/L		05/03/11 17:33	05/06/11 02:11	1
Cadmium	**0.28**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/06/11 02:11	1
Calcium	**1400000**		2000	680	ug/L		05/03/11 17:33	05/05/11 21:52	4
Chromium	**7.1**		5.0	2.5	ug/L		05/03/11 17:33	05/06/11 02:11	1
Cobalt	**110**		0.50	0.12	ug/L		05/03/11 17:33	05/06/11 02:11	1
Copper	**6.8**		5.0	1.1	ug/L		05/03/11 17:33	05/06/11 02:11	1
Iron	**13000**		100	44	ug/L		05/03/11 17:33	05/06/11 02:11	1
Lead	**2.1**		1.5	0.50	ug/L		05/03/11 17:33	05/06/11 02:11	1
Magnesium	**560000**		1000	400	ug/L		05/03/11 17:33	05/05/11 21:52	4
Manganese	**31000**		20	8.0	ug/L		05/03/11 17:33	05/05/11 21:52	4
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/06/11 02:11	1
Nickel	**27**		5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:11	1
Potassium	**1100**		1000	330	ug/L		05/03/11 17:33	05/06/11 02:11	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/06/11 02:11	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/06/11 02:11	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-2
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**790000**		2000	680	ug/L		05/03/11 17:33	05/05/11 21:52	4
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/06/11 02:11	1
Vanadium	**4.4**	**J**	10	3.2	ug/L		05/03/11 17:33	05/06/11 02:11	1
Zinc	**26**		20	8.4	ug/L		05/03/11 17:33	05/06/11 02:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5000000**		100000	18000	ug/L			05/14/11 13:05	100
Nitrogen, Kjeldahl	**1100**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:20	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:20	1
Sulfate	**63000**		10000	5000	ug/L			05/13/11 14:39	2
Total Organic Carbon	**67000**		1000	500	ug/L			05/13/11 15:21	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-1
Date Collected: 04/27/11 14:35
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/03/11 16:27	5
Acetonitrile	200	U	200	50	ug/L			05/03/11 16:27	5
Acrolein	100	U	100	37	ug/L			05/03/11 16:27	5
Acrylonitrile	100	U	100	36	ug/L			05/03/11 16:27	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
Benzene	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/03/11 16:27	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/03/11 16:27	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/03/11 16:27	5
2-Butanone	50	U	50	5.0	ug/L			05/03/11 16:27	5
Carbon disulfide	10	U	10	3.0	ug/L			05/03/11 16:27	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/03/11 16:27	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/03/11 16:27	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/03/11 16:27	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/03/11 16:27	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/03/11 16:27	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/03/11 16:27	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/03/11 16:27	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/03/11 16:27	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/03/11 16:27	5
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/03/11 16:27	5
Diethyl ether	**100**		50	5.0	ug/L			05/03/11 16:27	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/03/11 16:27	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
2-Hexanone	50	U	50	5.0	ug/L			05/03/11 16:27	5
Iodomethane	25	U	25	5.0	ug/L			05/03/11 16:27	5
Isobutyl alcohol	200	U	200	55	ug/L			05/03/11 16:27	5
Methacrylonitrile	100	U	100	16	ug/L			05/03/11 16:27	5
Methylene Chloride	25	U	25	5.0	ug/L			05/03/11 16:27	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/03/11 16:27	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/03/11 16:27	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/03/11 16:27	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/03/11 16:27	5
Pentachloroethane	25	U	25	6.0	ug/L			05/03/11 16:27	5
Propionitrile	100	U	100	23	ug/L			05/03/11 16:27	5
Propylene oxide	1000	U	1000	1000	ug/L			05/03/11 16:27	5
Styrene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
t-Butanol	**330**		25	13	ug/L			05/03/11 16:27	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/03/11 16:27	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/03/11 16:27	5

Client Sample ID: WWL-1

Date Collected: 04/27/11 14:35
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/03/11 16:27	5
Toluene	5.0	U	5.0	1.6	ug/L			05/03/11 16:27	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/03/11 16:27	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/03/11 16:27	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/03/11 16:27	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/03/11 16:27	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/03/11 16:27	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/03/11 16:27	5
Vinyl acetate	10	U	10	1.4	ug/L			05/03/11 16:27	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/03/11 16:27	5
Xylenes, Total	10	U	10	1.0	ug/L			05/03/11 16:27	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*35*	*T J N*	*ug/L*		*2.02*			*05/03/11 16:27*	*5*
Unknown Alkane	*37*	*T J N*	*ug/L*		*5.42*			*05/03/11 16:27*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 16:27*	*5*
Dibromofluoromethane	*96*		*70 - 130*		*05/03/11 16:27*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 16:27*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 23:10	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 07:28	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 07:28	1
Methanol	1000	U	1000	830	ug/L			05/08/11 07:28	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**530**		100	50	ug/L		05/03/11 17:33	05/06/11 02:19	1
Antimony	**2.2**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:19	1
Arsenic	**1.8**	**J**	2.5	1.3	ug/L		05/03/11 17:33	05/06/11 02:19	1
Barium	**520**		5.0	1.4	ug/L		05/03/11 17:33	05/06/11 02:19	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/06/11 02:19	1
Cadmium	**0.29**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/06/11 02:19	1
Calcium	**210000**		500	170	ug/L		05/03/11 17:33	05/06/11 02:19	1
Chromium	**4.9**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/06/11 02:19	1
Cobalt	**2.1**		0.50	0.12	ug/L		05/03/11 17:33	05/06/11 02:19	1
Copper	**1.6**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/06/11 02:19	1
Iron	**110000**		100	44	ug/L		05/03/11 17:33	05/06/11 02:19	1
Lead	**0.66**	**J**	1.5	0.50	ug/L		05/03/11 17:33	05/06/11 02:19	1
Magnesium	**48000**		250	100	ug/L		05/03/11 17:33	05/06/11 02:19	1
Manganese	**3200**		5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:19	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/06/11 02:19	1
Nickel	**5.5**		5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:19	1
Potassium	**6300**		1000	330	ug/L		05/03/11 17:33	05/06/11 02:19	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/06/11 02:19	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-1
Date Collected: 04/27/11 14:35
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/06/11 02:19	1
Sodium	**460000**		1000	340	ug/L		05/03/11 17:33	05/05/11 21:59	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/06/11 02:19	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/06/11 02:19	1
Zinc	**14**	**J**	20	8.4	ug/L		05/03/11 17:33	05/06/11 02:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**600000**		10000	1800	ug/L			05/14/11 13:05	10
Nitrogen, Kjeldahl	**1400**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:21	1
Nitrite as N	**22**	**J**	50	10	ug/L			04/28/11 17:21	1
Sulfate	**340000**		50000	25000	ug/L			05/13/11 14:23	10
Total Organic Carbon	**280000**		5000	2500	ug/L			05/16/11 15:51	5

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Trip Blank 2
Date Collected: 04/27/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 19:15	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 19:15	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 19:15	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 19:15	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 19:15	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 19:15	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 19:15	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 19:15	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 19:15	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 19:15	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 19:15	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 19:15	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 19:15	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 19:15	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 19:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 19:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 19:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 19:15	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 19:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 19:15	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 19:15	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 19:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 19:15	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 19:15	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 19:15	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 19:15	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 19:15	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 19:15	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 19:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 19:15	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 19:15	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 19:15	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 19:15	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 19:15	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 19:15	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 19:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 19:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 19:15	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Trip Blank 2
Date Collected: 04/27/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 19:15	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 19:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 19:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 19:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 19:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 19:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 19:15	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 19:15	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 19:15	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 19:15	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 19:15	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 19:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 19:15*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/04/11 19:15*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 19:15*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 19:15*	*1*

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 20:13	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 20:13	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 20:13	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 20:13	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 20:13	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 20:13	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 20:13	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 20:13	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 20:13	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 20:13	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 20:13	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 20:13	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 20:13	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 20:13	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 20:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 20:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 20:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 20:13	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 20:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 20:13	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 20:13	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 20:13	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 20:13	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 20:13	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 20:13	1
Isobutyl alcohol	40	U	40	11	ug/L			05/02/11 20:13	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 20:13	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 20:13	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 20:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 20:13	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 20:13	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 20:13	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 20:13	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 20:13	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 20:13	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 20:13	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 20:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 20:13	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 20:13	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 20:13	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 20:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 20:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 20:13	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 20:13	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 20:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 20:13	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 20:13	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 20:13	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 20:13	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 20:13	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 20:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl Alcohol	*35*	*T J N*	*ug/L*		*1.99*	*67-63-0*		*05/02/11 20:13*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/02/11 20:13*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/02/11 20:13*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/02/11 20:13*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Acetophenone	**0.16**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 18:32	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 18:32	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 18:32	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,4-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dichlorophenol	0.95	U *	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 18:32	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:32	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 18:32	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 18:32	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/09/11 18:32	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:32	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 18:32	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 18:32	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:32	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:32	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 18:32	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:32	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*21*	*T A J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 18:32*	*1*
Unknown	*1.8*	*T J*	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 18:32*	*1*
Unknown	*9.7*	*T J*	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 18:32*	*1*

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Nonanal	1.4	T J N	ug/L		6.28	124-19-6	05/03/11 14:47	05/09/11 18:32	1
Unknown	0.81	T J	ug/L		7.70		05/03/11 14:47	05/09/11 18:32	1
Unknown	3.0	T J	ug/L		8.64		05/03/11 14:47	05/09/11 18:32	1
Phenol, 2,4-bis(1,1-dimethylethyl)-	1.1	T J N	ug/L		8.91	96-76-4	05/03/11 14:47	05/09/11 18:32	1
Unknown	2.2	T J	ug/L		11.19		05/03/11 14:47	05/09/11 18:32	1
Unknown	16	T J	ug/L		13.99		05/03/11 14:47	05/09/11 18:32	1
Unknown	1.4	T J	ug/L		19.45		05/03/11 14:47	05/09/11 18:32	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		34 - 130	05/03/11 14:47	05/09/11 18:32	1
2-Fluorophenol	60		25 - 130	05/03/11 14:47	05/09/11 18:32	1
Nitrobenzene-d5	70		32 - 130	05/03/11 14:47	05/09/11 18:32	1
Phenol-d5	57		27 - 130	05/03/11 14:47	05/09/11 18:32	1
Terphenyl-d14	79		36 - 130	05/03/11 14:47	05/09/11 18:32	1
2,4,6-Tribromophenol	73		30 - 130	05/03/11 14:47	05/09/11 18:32	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 23:34	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 07:52	1
Isopropanol	**1500**		1000	300	ug/L			05/08/11 07:52	1
Methanol	1000	U	1000	830	ug/L			05/08/11 07:52	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/03/11 17:33	05/05/11 22:06	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:06	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 22:06	1
Barium	5.0	U	5.0	1.4	ug/L		05/03/11 17:33	05/05/11 22:06	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 22:06	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 22:06	1
Calcium	500	U	500	170	ug/L		05/03/11 17:33	05/05/11 22:06	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 22:06	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 22:06	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 22:06	1
Iron	100	U	100	44	ug/L		05/03/11 17:33	05/05/11 22:06	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 22:06	1
Magnesium	250	U	250	100	ug/L		05/03/11 17:33	05/05/11 22:06	1
Manganese	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:06	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 22:06	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:06	1
Potassium	1000	U	1000	330	ug/L		05/03/11 17:33	05/05/11 22:06	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 22:06	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 22:06	1
Sodium	500	U	500	170	ug/L		05/03/11 17:33	05/05/11 22:06	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 22:06	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 22:06	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:33	05/05/11 22:06	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/14/11 13:01	1
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**58**		50	10	ug/L			04/28/11 17:22	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:22	1
Sulfate	5000	U	5000	2500	ug/L			05/13/11 13:42	1
Total Organic Carbon	**620**	**J**	1000	500	ug/L			05/13/11 16:03	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	500	ug/L			05/03/11 18:55	100
Acetonitrile	4000	U	4000	1000	ug/L			05/03/11 18:55	100
Acrolein	2000	U	2000	740	ug/L			05/03/11 18:55	100
Acrylonitrile	2000	U	2000	720	ug/L			05/03/11 18:55	100
Allyl chloride	100	U	100	20	ug/L			05/03/11 18:55	100
Benzene	100	U	100	25	ug/L			05/03/11 18:55	100
Benzyl chloride	100	U	100	100	ug/L			05/03/11 18:55	100
Bromodichloromethane	100	U	100	25	ug/L			05/03/11 18:55	100
Bromoform	100	U	100	50	ug/L			05/03/11 18:55	100
Bromomethane	100	U	100	80	ug/L			05/03/11 18:55	100
2-Butanone	1000	U	1000	100	ug/L			05/03/11 18:55	100
Carbon disulfide	200	U	200	60	ug/L			05/03/11 18:55	100
Carbon tetrachloride	100	U	100	50	ug/L			05/03/11 18:55	100
Chlorobenzene	100	U	100	25	ug/L			05/03/11 18:55	100
Chloroethane	100	U	100	100	ug/L			05/03/11 18:55	100
Chloroform	100	U	100	14	ug/L			05/03/11 18:55	100
Chloromethane	100	U	100	33	ug/L			05/03/11 18:55	100
Chloroprene	100	U	100	30	ug/L			05/03/11 18:55	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			05/03/11 18:55	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			05/03/11 18:55	100
Dibromochloromethane	100	U	100	10	ug/L			05/03/11 18:55	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			05/03/11 18:55	100
1,2-Dibromoethane	100	U	100	25	ug/L			05/03/11 18:55	100
Dibromomethane	100	U	100	20	ug/L			05/03/11 18:55	100
Dichlorodifluoromethane	100	U	100	25	ug/L			05/03/11 18:55	100
1,1-Dichloroethane	100	U	100	25	ug/L			05/03/11 18:55	100
1,2-Dichloroethane	100	U	100	10	ug/L			05/03/11 18:55	100
1,1-Dichloroethene	100	U	100	11	ug/L			05/03/11 18:55	100
1,2-Dichloropropane	100	U	100	13	ug/L			05/03/11 18:55	100
Diethyl ether	**8100**		1000	100	ug/L			05/03/11 18:55	100
Ethylbenzene	100	U	100	11	ug/L			05/03/11 18:55	100
Ethylene oxide	20000	U	20000	20000	ug/L			05/03/11 18:55	100
Ethyl methacrylate	100	U	100	25	ug/L			05/03/11 18:55	100
2-Hexanone	1000	U	1000	100	ug/L			05/03/11 18:55	100
Iodomethane	500	U	500	100	ug/L			05/03/11 18:55	100
Isobutyl alcohol	4000	U	4000	1100	ug/L			05/03/11 18:55	100
Methacrylonitrile	2000	U	2000	330	ug/L			05/03/11 18:55	100
Methylene Chloride	500	U	500	100	ug/L			05/03/11 18:55	100
Methyl methacrylate	100	U	100	48	ug/L			05/03/11 18:55	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	ug/L			05/03/11 18:55	100
Methyl tert-butyl ether	1000	U	1000	20	ug/L			05/03/11 18:55	100
n-Heptane	100	U	100	42	ug/L			05/03/11 18:55	100
Pentachloroethane	500	U	500	120	ug/L			05/03/11 18:55	100
Propionitrile	2000	U	2000	460	ug/L			05/03/11 18:55	100
Propylene oxide	20000	U	20000	20000	ug/L			05/03/11 18:55	100
Styrene	100	U	100	11	ug/L			05/03/11 18:55	100
t-Butanol	500	U	500	260	ug/L			05/03/11 18:55	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			05/03/11 18:55	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			05/03/11 18:55	100

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	100	U	100	15	ug/L			05/03/11 18:55	100
Toluene	100	U	100	33	ug/L			05/03/11 18:55	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			05/03/11 18:55	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			05/03/11 18:55	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			05/03/11 18:55	100
1,2,3-Trichlorobenzene	100	U	100	35	ug/L			05/03/11 18:55	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			05/03/11 18:55	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			05/03/11 18:55	100
Trichloroethylene	100	U	100	13	ug/L			05/03/11 18:55	100
Trichlorofluoromethane	100	U	100	25	ug/L			05/03/11 18:55	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			05/03/11 18:55	100
Vinyl acetate	200	U	200	28	ug/L			05/03/11 18:55	100
Vinyl chloride	100	U	100	18	ug/L			05/03/11 18:55	100
Xylenes, Total	200	U	200	20	ug/L			05/03/11 18:55	100

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 18:55*	*100*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 18:55*	*100*
Dibromofluoromethane	*101*		*70 - 130*		*05/03/11 18:55*	*100*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/03/11 18:55*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 19:00	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 19:00	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Butyl benzyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Chlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 19:00	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,4-Dichlorobenzene	**0.12**	**J B**	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dichlorophenol	0.96	U *	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:00	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 19:00	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 19:00	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dinitrotoluene	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,4-Dioxane	**18**		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 19:00	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:00	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 19:00	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 19:00	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 19:00	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 19:00	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:00	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:00	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pronamide	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 19:00	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:00	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*31*	*T A J*	*ug/L*		*3.99*		*05/03/11 14:47*	*05/09/11 19:00*	*1*
Unknown	*9.6*	*T J*	*ug/L*		*4.74*		*05/03/11 14:47*	*05/09/11 19:00*	*1*
Unknown	*20*	*T J*	*ug/L*		*4.98*		*05/03/11 14:47*	*05/09/11 19:00*	*1*

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	6.6	T J	ug/L		5.03		05/03/11 14:47	05/09/11 19:00	1
Unknown	15	T J	ug/L		5.71		05/03/11 14:47	05/09/11 19:00	1
Unknown	270	T J	ug/L		6.12		05/03/11 14:47	05/09/11 19:00	1
Unknown	72	T J	ug/L		7.94		05/03/11 14:47	05/09/11 19:00	1
Unknown	40	T J	ug/L		9.54		05/03/11 14:47	05/09/11 19:00	1
Unknown	18	T J	ug/L		10.98		05/03/11 14:47	05/09/11 19:00	1
(Carbethoxyethylidine)triphenylphosphora	14	T J N	ug/L		14.00	5717-37-3	05/03/11 14:47	05/09/11 19:00	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		34 - 130	05/03/11 14:47	05/09/11 19:00	1
2-Fluorophenol	68		25 - 130	05/03/11 14:47	05/09/11 19:00	1
Nitrobenzene-d5	71		32 - 130	05/03/11 14:47	05/09/11 19:00	1
Phenol-d5	65		27 - 130	05/03/11 14:47	05/09/11 19:00	1
Terphenyl-d14	69		36 - 130	05/03/11 14:47	05/09/11 19:00	1
2,4,6-Tribromophenol	82		30 - 130	05/03/11 14:47	05/09/11 19:00	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 23:58	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 08:16	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 08:16	1
Methanol	1000	U	1000	830	ug/L			05/08/11 08:16	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**740**		100	50	ug/L		05/03/11 17:33	05/05/11 22:13	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:13	1
Arsenic	**2.0**	**J**	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 22:13	1
Barium	**33**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 22:13	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 22:13	1
Cadmium	**0.39**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 22:13	1
Calcium	**280000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:13	1
Chromium	**2.6**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 22:13	1
Cobalt	**65**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 22:13	1
Copper	**2.6**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 22:13	1
Iron	**170000**		100	44	ug/L		05/03/11 17:33	05/05/11 22:13	1
Lead	**0.73**	**J**	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 22:13	1
Magnesium	**83000**		250	100	ug/L		05/03/11 17:33	05/05/11 22:13	1
Manganese	**13000**		20	8.0	ug/L		05/03/11 17:33	05/06/11 10:22	4
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 22:13	1
Nickel	**12**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:13	1
Potassium	**6500**		1000	330	ug/L		05/03/11 17:33	05/05/11 22:13	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 22:13	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 22:13	1
Sodium	**330000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:13	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 22:13	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 22:13	1
Zinc	**22**		20	8.4	ug/L		05/03/11 17:33	05/05/11 22:13	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100000**		20000	3600	ug/L			05/14/11 13:05	20
Nitrogen, Kjeldahl	**1300**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**41**	**J**	50	10	ug/L			04/28/11 17:24	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:24	1
Sulfate	**440000**		100000	50000	ug/L			05/13/11 14:40	20
Total Organic Carbon	**5100**		1000	500	ug/L			05/13/11 16:20	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	50	ug/L			05/04/11 02:24	10
Acetonitrile	400	U	400	100	ug/L			05/04/11 02:24	10
Acrolein	200	U	200	74	ug/L			05/04/11 02:24	10
Acrylonitrile	200	U	200	72	ug/L			05/04/11 02:24	10
Allyl chloride	10	U	10	2.0	ug/L			05/04/11 02:24	10
Benzene	10	U	10	2.5	ug/L			05/04/11 02:24	10
Benzyl chloride	10	U	10	10	ug/L			05/04/11 02:24	10
Bromodichloromethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
Bromoform	10	U	10	5.0	ug/L			05/04/11 02:24	10
Bromomethane	10	U	10	8.0	ug/L			05/04/11 02:24	10
2-Butanone	100	U	100	10	ug/L			05/04/11 02:24	10
Carbon disulfide	20	U	20	6.0	ug/L			05/04/11 02:24	10
Carbon tetrachloride	10	U	10	5.0	ug/L			05/04/11 02:24	10
Chlorobenzene	10	U	10	2.5	ug/L			05/04/11 02:24	10
Chloroethane	10	U	10	10	ug/L			05/04/11 02:24	10
Chloroform	10	U	10	1.4	ug/L			05/04/11 02:24	10
Chloromethane	10	U	10	3.3	ug/L			05/04/11 02:24	10
Chloroprene	10	U	10	3.0	ug/L			05/04/11 02:24	10
cis-1,2-Dichloroethene	10	U	10	1.5	ug/L			05/04/11 02:24	10
cis-1,3-Dichloropropene	10	U	10	1.1	ug/L			05/04/11 02:24	10
Dibromochloromethane	10	U	10	1.0	ug/L			05/04/11 02:24	10
1,2-Dibromo-3-Chloropropane	10	U	10	4.4	ug/L			05/04/11 02:24	10
1,2-Dibromoethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
Dibromomethane	10	U	10	2.0	ug/L			05/04/11 02:24	10
Dichlorodifluoromethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
1,2-Dichloroethane	10	U	10	1.0	ug/L			05/04/11 02:24	10
1,1-Dichloroethene	10	U	10	1.1	ug/L			05/04/11 02:24	10
1,2-Dichloropropane	10	U	10	1.3	ug/L			05/04/11 02:24	10
Diethyl ether	**810**		100	10	ug/L			05/04/11 02:24	10
Ethylbenzene	10	U	10	1.1	ug/L			05/04/11 02:24	10
Ethylene oxide	2000	U	2000	2000	ug/L			05/04/11 02:24	10
Ethyl methacrylate	10	U	10	2.5	ug/L			05/04/11 02:24	10
2-Hexanone	100	U	100	10	ug/L			05/04/11 02:24	10
Iodomethane	50	U	50	10	ug/L			05/04/11 02:24	10
Isobutyl alcohol	400	U	400	110	ug/L			05/04/11 02:24	10
Methacrylonitrile	200	U	200	33	ug/L			05/04/11 02:24	10
Methylene Chloride	50	U	50	10	ug/L			05/04/11 02:24	10
Methyl methacrylate	10	U	10	4.8	ug/L			05/04/11 02:24	10
4-Methyl-2-pentanone (MIBK)	100	U	100	10	ug/L			05/04/11 02:24	10
Methyl tert-butyl ether	100	U	100	2.0	ug/L			05/04/11 02:24	10
n-Heptane	10	U	10	4.2	ug/L			05/04/11 02:24	10
Pentachloroethane	50	U	50	12	ug/L			05/04/11 02:24	10
Propionitrile	200	U	200	46	ug/L			05/04/11 02:24	10
Propylene oxide	2000	U	2000	2000	ug/L			05/04/11 02:24	10
Styrene	10	U	10	1.1	ug/L			05/04/11 02:24	10
t-Butanol	**30**	**J**	50	26	ug/L			05/04/11 02:24	10
1,1,1,2-Tetrachloroethane	10	U	10	3.3	ug/L			05/04/11 02:24	10
1,1,2,2-Tetrachloroethane	10	U	10	1.8	ug/L			05/04/11 02:24	10

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	10	U	10	1.5	ug/L			05/04/11 02:24	10
Toluene	10	U	10	3.3	ug/L			05/04/11 02:24	10
trans-1,4-Dichloro-2-butene	20	U	20	5.0	ug/L			05/04/11 02:24	10
trans-1,2-Dichloroethene	10	U	10	2.0	ug/L			05/04/11 02:24	10
trans-1,3-Dichloropropene	10	U	10	2.1	ug/L			05/04/11 02:24	10
1,2,3-Trichlorobenzene	10	U	10	3.5	ug/L			05/04/11 02:24	10
1,1,1-Trichloroethane	10	U	10	5.0	ug/L			05/04/11 02:24	10
1,1,2-Trichloroethane	10	U	10	1.3	ug/L			05/04/11 02:24	10
Trichloroethylene	10	U	10	1.3	ug/L			05/04/11 02:24	10
Trichlorofluoromethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
1,2,3-Trichloropropane	10	U	10	4.1	ug/L			05/04/11 02:24	10
Vinyl acetate	20	U	20	2.8	ug/L			05/04/11 02:24	10
Vinyl chloride	10	U	10	1.8	ug/L			05/04/11 02:24	10
Xylenes, Total	20	U	20	2.0	ug/L			05/04/11 02:24	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 02:24*	*10*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*05/04/11 02:24*	*10*
Dibromofluoromethane	*96*		*70 - 130*		*05/04/11 02:24*	*10*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/04/11 02:24*	*10*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U H	250	50	ug/L			05/24/11 05:05	10
Acetonitrile	400	U H	400	100	ug/L			05/24/11 05:05	10
Acrolein	200	U H	200	74	ug/L			05/24/11 05:05	10
Acrylonitrile	200	U H	200	72	ug/L			05/24/11 05:05	10
Allyl chloride	10	U H	10	2.0	ug/L			05/24/11 05:05	10
Benzene	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Bromodichloromethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Bromoform	10	U H	10	5.0	ug/L			05/24/11 05:05	10
Bromomethane	10	U H	10	8.0	ug/L			05/24/11 05:05	10
2-Butanone	100	U H	100	10	ug/L			05/24/11 05:05	10
Carbon disulfide	20	U H	20	6.0	ug/L			05/24/11 05:05	10
Carbon tetrachloride	10	U H	10	5.0	ug/L			05/24/11 05:05	10
Chlorobenzene	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Chloroethane	10	U H	10	10	ug/L			05/24/11 05:05	10
Chloroform	10	U H	10	1.4	ug/L			05/24/11 05:05	10
Chloromethane	10	U H	10	3.3	ug/L			05/24/11 05:05	10
Chloroprene	10	U H	10	3.0	ug/L			05/24/11 05:05	10
cis-1,2-Dichloroethene	10	U H	10	1.5	ug/L			05/24/11 05:05	10
cis-1,3-Dichloropropene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
Dibromochloromethane	10	U H	10	1.0	ug/L			05/24/11 05:05	10
1,2-Dibromo-3-Chloropropane	10	U H	10	4.4	ug/L			05/24/11 05:05	10
1,2-Dibromoethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Dibromomethane	10	U H	10	2.0	ug/L			05/24/11 05:05	10
Dichlorodifluoromethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
1,1-Dichloroethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
1,2-Dichloroethane	10	U H	10	1.0	ug/L			05/24/11 05:05	10

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
1,2-Dichloropropane	10	U H	10	1.3	ug/L			05/24/11 05:05	10
Diethyl ether	**780**	**H**	100	10	ug/L			05/24/11 05:05	10
Ethylbenzene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
Ethyl methacrylate	10	U H	10	2.5	ug/L			05/24/11 05:05	10
2-Hexanone	100	U H	100	10	ug/L			05/24/11 05:05	10
Iodomethane	50	U H	50	10	ug/L			05/24/11 05:05	10
Isobutyl alcohol	400	U H	400	110	ug/L			05/24/11 05:05	10
Methacrylonitrile	200	U H	200	33	ug/L			05/24/11 05:05	10
Methylene Chloride	50	U H	50	10	ug/L			05/24/11 05:05	10
Methyl methacrylate	10	U H	10	4.8	ug/L			05/24/11 05:05	10
4-Methyl-2-pentanone (MIBK)	100	U H	100	10	ug/L			05/24/11 05:05	10
Methyl tert-butyl ether	100	U H	100	2.0	ug/L			05/24/11 05:05	10
n-Heptane	10	U H	10	4.2	ug/L			05/24/11 05:05	10
Pentachloroethane	50	U H	50	12	ug/L			05/24/11 05:05	10
Propionitrile	200	U H	200	46	ug/L			05/24/11 05:05	10
Styrene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
t-Butanol	50	U H	50	26	ug/L			05/24/11 05:05	10
1,1,1,2-Tetrachloroethane	10	U H	10	3.3	ug/L			05/24/11 05:05	10
1,1,2,2-Tetrachloroethane	10	U H	10	1.8	ug/L			05/24/11 05:05	10
Tetrachloroethene	10	U H	10	1.5	ug/L			05/24/11 05:05	10
Toluene	10	U H	10	3.3	ug/L			05/24/11 05:05	10
trans-1,4-Dichloro-2-butene	20	U H	20	5.0	ug/L			05/24/11 05:05	10
trans-1,2-Dichloroethene	10	U H	10	2.0	ug/L			05/24/11 05:05	10
trans-1,3-Dichloropropene	10	U H	10	2.1	ug/L			05/24/11 05:05	10
1,2,3-Trichlorobenzene	10	U H	10	3.5	ug/L			05/24/11 05:05	10
1,1,1-Trichloroethane	10	U H	10	5.0	ug/L			05/24/11 05:05	10
1,1,2-Trichloroethane	10	U H	10	1.3	ug/L			05/24/11 05:05	10
Trichloroethylene	10	U H	10	1.3	ug/L			05/24/11 05:05	10
Trichlorofluoromethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
1,2,3-Trichloropropane	10	U H	10	4.1	ug/L			05/24/11 05:05	10
Vinyl acetate	20	U H	20	2.8	ug/L			05/24/11 05:05	10
Vinyl chloride	10	U H	10	1.8	ug/L			05/24/11 05:05	10
Xylenes, Total	20	U H	20	2.0	ug/L			05/24/11 05:05	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/L*					*05/24/11 05:05*	*10*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*05/24/11 05:05*	*10*
Dibromofluoromethane	*97*		*70 - 130*		*05/24/11 05:05*	*10*
Toluene-d8 (Surr)	*107*		*70 - 130*		*05/24/11 05:05*	*10*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 19:27	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 19:27	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 19:27	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,4-Dichlorobenzene	**0.11**	**J B**	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dichlorophenol	0.96	U *	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:27	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:27	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 19:27	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		05/03/11 14:47	05/09/11 19:27	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,6-Dinitrotoluene	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,4-Dioxane	**3.2**		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 19:27	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:27	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Methapyrilene	190	U	190	1.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Methyl parathion	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 19:27	1
3 & 4 Methylphenol	1.9	U *	1.9	0.64	ug/L		05/03/11 14:47	05/09/11 19:27	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:27	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
o-Toluidine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:27	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 19:27	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:27	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*26*	*T A J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*0.67*	*T J*	*ug/L*		*4.86*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*1.1*	*T J*	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*6.8*	*T J*	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*1.2*	*T J*	*ug/L*		*5.55*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*23*	*T J*	*ug/L*		*6.10*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.92*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*6.4*	*T J*	*ug/L*		*9.53*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*2.0*	*T J*	*ug/L*		*10.97*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
(Carbethoxyethylidine)triphenylphosphora	*12*	*T J N*	*ug/L*		*14.00*	*5717-37-3*	*05/03/11 14:47*	*05/09/11 19:27*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
2-Fluorophenol	*62*		*25 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
Nitrobenzene-d5	*65*		*32 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
Phenol-d5	*57*		*27 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
Terphenyl-d14	*66*		*36 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
2,4,6-Tribromophenol	*77*		*30 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/07/11 00:22	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 08:40	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 08:40	1
Methanol	1000	U	1000	830	ug/L			05/08/11 08:40	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**810**		100	50	ug/L		05/03/11 17:33	05/05/11 22:20	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:20	1
Arsenic	**1.8**	**J**	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 22:20	1
Barium	**35**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 22:20	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 22:20	1
Cadmium	**0.40**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 22:20	1
Calcium	**270000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:20	1
Chromium	**5.2**		5.0	2.5	ug/L		05/03/11 17:33	05/05/11 22:20	1
Cobalt	**48**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 22:20	1
Copper	**1.9**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 22:20	1
Iron	**72000**		100	44	ug/L		05/03/11 17:33	05/05/11 22:20	1
Lead	**0.91**	**J**	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 22:20	1
Magnesium	**82000**		250	100	ug/L		05/03/11 17:33	05/05/11 22:20	1
Manganese	**8800**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:20	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 22:20	1
Nickel	**7.0**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:20	1
Potassium	**7900**		1000	330	ug/L		05/03/11 17:33	05/05/11 22:20	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 22:20	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 22:20	1
Sodium	**170000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:20	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 22:20	1
Vanadium	**3.5**	**J**	10	3.2	ug/L		05/03/11 17:33	05/05/11 22:20	1
Zinc	**31**		20	8.4	ug/L		05/03/11 17:33	05/05/11 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**720000**		10000	1800	ug/L			05/14/11 13:05	10
Nitrogen, Kjeldahl	**510**		200	150	ug/L		05/11/11 19:55	05/12/11 15:57	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:25	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:25	1
Sulfate	**330000**		50000	25000	ug/L			05/13/11 14:25	10
Total Organic Carbon	**3700**		1000	500	ug/L			05/13/11 16:36	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.5**	**J**	25	5.0	ug/L			05/05/11 16:27	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 16:27	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 16:27	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 16:27	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 16:27	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 16:27	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 16:27	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 16:27	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 16:27	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 16:27	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 16:27	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 16:27	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 16:27	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:27	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 16:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 16:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 16:27	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 16:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:27	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 16:27	1
Diethyl ether	**10**		10	1.0	ug/L			05/05/11 16:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 16:27	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 16:27	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 16:27	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 16:27	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 16:27	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 16:27	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 16:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 16:27	1
Methyl tert-butyl ether	**0.68**	**J**	10	0.20	ug/L			05/05/11 16:27	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 16:27	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 16:27	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 16:27	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 16:27	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
t-Butanol	**150**	**E**	5.0	2.6	ug/L			05/05/11 16:27	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 16:27	1

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 16:27	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 16:27	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 16:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 16:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 16:27	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 16:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 16:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 16:27	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 16:27	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 16:27	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 16:27	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 16:27	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 16:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 16:27*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/05/11 16:27*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/05/11 16:27*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/11 16:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/05/11 22:26	5
Acetonitrile	200	U	200	50	ug/L			05/05/11 22:26	5
Acrolein	100	U	100	37	ug/L			05/05/11 22:26	5
Acrylonitrile	100	U	100	36	ug/L			05/05/11 22:26	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
Benzene	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/05/11 22:26	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/05/11 22:26	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/05/11 22:26	5
2-Butanone	50	U	50	5.0	ug/L			05/05/11 22:26	5
Carbon disulfide	10	U	10	3.0	ug/L			05/05/11 22:26	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/05/11 22:26	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/05/11 22:26	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/05/11 22:26	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/05/11 22:26	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/05/11 22:26	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 22:26	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/05/11 22:26	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/05/11 22:26	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/05/11 22:26	5
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/05/11 22:26	5
Diethyl ether	**10**	**J D**	50	5.0	ug/L			05/05/11 22:26	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/05/11 22:26	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
2-Hexanone	50	U	50	5.0	ug/L			05/05/11 22:26	5
Iodomethane	25	U	25	5.0	ug/L			05/05/11 22:26	5
Isobutyl alcohol	200	U	200	55	ug/L			05/05/11 22:26	5
Methacrylonitrile	100	U	100	16	ug/L			05/05/11 22:26	5
Methylene Chloride	25	U	25	5.0	ug/L			05/05/11 22:26	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/05/11 22:26	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/05/11 22:26	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/05/11 22:26	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/05/11 22:26	5
Pentachloroethane	25	U	25	6.0	ug/L			05/05/11 22:26	5
Propionitrile	100	U	100	23	ug/L			05/05/11 22:26	5
Propylene oxide	1000	U	1000	1000	ug/L			05/05/11 22:26	5
Styrene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
t-Butanol	**160**	**D**	25	13	ug/L			05/05/11 22:26	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/05/11 22:26	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/05/11 22:26	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 22:26	5
Toluene	5.0	U	5.0	1.6	ug/L			05/05/11 22:26	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/05/11 22:26	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/05/11 22:26	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/05/11 22:26	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/05/11 22:26	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/05/11 22:26	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/05/11 22:26	5
Vinyl acetate	10	U	10	1.4	ug/L			05/05/11 22:26	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/05/11 22:26	5
Xylenes, Total	10	U	10	1.0	ug/L			05/05/11 22:26	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 22:26*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 22:26*	*5*
Dibromofluoromethane	*97*		*70 - 130*		*05/05/11 22:26*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 22:26*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/07/11 00:46	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 09:04	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 09:04	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	1000	U	1000	830	ug/L			05/08/11 09:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**470**		100	50	ug/L		05/03/11 17:39	05/06/11 01:08	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:08	1
Arsenic	**5.6**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:08	1
Barium	**46**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:08	1
Beryllium	**0.22**	**J**	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:08	1
Cadmium	**0.23**	**J**	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:08	1
Calcium	**85000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:08	1
Chromium	**6.7**		5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:08	1
Cobalt	**120**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 01:08	1
Copper	**6.2**		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:08	1
Iron	**96000**		100	44	ug/L		05/03/11 17:39	05/06/11 01:08	1
Lead	**0.68**	**J**	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:08	1
Magnesium	**160000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:08	1
Manganese	**12000**		10	4.0	ug/L		05/03/11 17:39	05/06/11 09:33	2
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:08	1
Nickel	**68**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:08	1
Potassium	**2200**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:08	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:08	1
Silver	**0.19**	**J**	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:08	1
Sodium	**490000**		1000	340	ug/L		05/03/11 17:39	05/06/11 09:33	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:08	1
Vanadium	**3.9**	**J**	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:08	1
Zinc	**25**		20	8.4	ug/L		05/03/11 17:39	05/06/11 01:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**530000**		10000	1800	ug/L			05/17/11 11:37	10
Nitrogen, Kjeldahl	**1500**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**390**		50	10	ug/L			04/29/11 17:35	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:35	1
Sulfate	**1200000**		200000	100000	ug/L			05/17/11 14:14	40
Total Organic Carbon	**12000**		1000	500	ug/L			05/17/11 12:55	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW4
Date Collected: 04/28/11 11:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 15:54	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 15:54	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 15:54	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 15:54	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 15:54	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 15:54	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 15:54	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 15:54	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 15:54	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 15:54	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 15:54	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 15:54	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 15:54	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:54	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 15:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 15:54	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 15:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:54	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 15:54	1
Diethyl ether	**4.3**	**J**	10	1.0	ug/L			05/04/11 15:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 15:54	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 15:54	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 15:54	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 15:54	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 15:54	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 15:54	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 15:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 15:54	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 15:54	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 15:54	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 15:54	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 15:54	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 15:54	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 15:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 15:54	1

Client Sample ID: RAB-MW4

Date Collected: 04/28/11 11:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:54	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 15:54	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 15:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 15:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 15:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 15:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 15:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 15:54	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 15:54	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 15:54	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 15:54	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 15:54	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 15:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 15:54*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/04/11 15:54*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 15:54*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 15:54*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/07/11 01:09	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 09:27	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 09:27	1
Methanol	1000	U	1000	830	ug/L			05/08/11 09:27	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2600**		100	50	ug/L		05/03/11 17:39	05/05/11 23:16	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:16	1
Arsenic	**1.3**	**J**	2.5	1.3	ug/L		05/03/11 17:39	05/05/11 23:16	1
Barium	**18**		5.0	1.4	ug/L		05/03/11 17:39	05/05/11 23:16	1
Beryllium	**0.19**	**J**	0.50	0.15	ug/L		05/03/11 17:39	05/05/11 23:16	1
Cadmium	**0.50**		0.50	0.13	ug/L		05/03/11 17:39	05/05/11 23:16	1
Calcium	**250000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:16	1
Chromium	**8.3**		5.0	2.5	ug/L		05/03/11 17:39	05/05/11 23:16	1
Cobalt	**2.5**		0.50	0.12	ug/L		05/03/11 17:39	05/05/11 23:16	1
Copper	**4.9**	**J**	5.0	1.1	ug/L		05/03/11 17:39	05/05/11 23:16	1
Iron	**3000**		100	44	ug/L		05/03/11 17:39	05/05/11 23:16	1
Lead	**1.5**		1.5	0.50	ug/L		05/03/11 17:39	05/05/11 23:16	1
Magnesium	**220000**		250	100	ug/L		05/03/11 17:39	05/05/11 23:16	1
Manganese	**610**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:16	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/05/11 23:16	1
Nickel	**51**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:16	1
Potassium	**5100**		1000	330	ug/L		05/03/11 17:39	05/05/11 23:16	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/05/11 23:16	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/05/11 23:16	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW4
Date Collected: 04/28/11 11:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**360000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:16	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/05/11 23:16	1
Vanadium	**7.4**	**J**	10	3.2	ug/L		05/03/11 17:39	05/05/11 23:16	1
Zinc	**22**		20	8.4	ug/L		05/03/11 17:39	05/05/11 23:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350000**		5000	900	ug/L			05/17/11 11:24	5
Nitrogen, Kjeldahl	**250**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:38	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:38	1
Sulfate	**1600000**		500000	250000	ug/L			05/17/11 14:14	100
Total Organic Carbon	**2600**		1000	500	ug/L			05/17/11 13:12	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**30**		25	5.0	ug/L			05/05/11 16:56	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 16:56	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 16:56	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 16:56	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 16:56	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 16:56	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 16:56	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 16:56	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 16:56	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 16:56	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 16:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 16:56	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 16:56	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:56	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 16:56	1
cis-1,2-Dichloroethene	**0.20**	**J**	1.0	0.15	ug/L			05/05/11 16:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 16:56	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 16:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:56	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 16:56	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 16:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 16:56	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 16:56	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 16:56	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 16:56	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 16:56	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 16:56	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 16:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 16:56	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 16:56	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 16:56	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 16:56	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 16:56	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 16:56	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
t-Butanol	**100000**	**E**	5.0	2.6	ug/L			05/05/11 16:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 16:56	1

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.3		1.0	0.15	ug/L			05/05/11 16:56	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 16:56	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 16:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 16:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 16:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 16:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 16:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 16:56	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 16:56	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 16:56	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 16:56	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 16:56	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 16:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Carbon dioxide	*2800*	*T J N*	*ug/L*		*1.03*	*124-38-9*		*05/05/11 16:56*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/05/11 16:56*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*05/05/11 16:56*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/05/11 16:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100000	U	100000	20000	ug/L			05/05/11 23:12	4000
Acetonitrile	160000	U	160000	40000	ug/L			05/05/11 23:12	4000
Acrolein	80000	U	80000	30000	ug/L			05/05/11 23:12	4000
Acrylonitrile	80000	U	80000	29000	ug/L			05/05/11 23:12	4000
Allyl chloride	4000	U	4000	800	ug/L			05/05/11 23:12	4000
Benzene	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Benzyl chloride	4000	U	4000	4000	ug/L			05/05/11 23:12	4000
Bromodichloromethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Bromoform	4000	U	4000	2000	ug/L			05/05/11 23:12	4000
Bromomethane	4000	U	4000	3200	ug/L			05/05/11 23:12	4000
2-Butanone	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Carbon disulfide	8000	U	8000	2400	ug/L			05/05/11 23:12	4000
Carbon tetrachloride	4000	U	4000	2000	ug/L			05/05/11 23:12	4000
Chlorobenzene	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Chloroethane	4000	U	4000	4000	ug/L			05/05/11 23:12	4000
Chloroform	4000	U	4000	560	ug/L			05/05/11 23:12	4000
Chloromethane	4000	U	4000	1300	ug/L			05/05/11 23:12	4000
Chloroprene	4000	U	4000	1200	ug/L			05/05/11 23:12	4000
cis-1,2-Dichloroethene	4000	U	4000	600	ug/L			05/05/11 23:12	4000
cis-1,3-Dichloropropene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
Dibromochloromethane	4000	U	4000	400	ug/L			05/05/11 23:12	4000
1,2-Dibromo-3-Chloropropane	4000	U	4000	1800	ug/L			05/05/11 23:12	4000
1,2-Dibromoethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Dibromomethane	4000	U	4000	800	ug/L			05/05/11 23:12	4000
Dichlorodifluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
1,1-Dichloroethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	4000	U	4000	400	ug/L			05/05/11 23:12	4000
1,1-Dichloroethene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
1,2-Dichloropropane	4000	U	4000	520	ug/L			05/05/11 23:12	4000
Diethyl ether	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Ethylbenzene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
Ethylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:12	4000
Ethyl methacrylate	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
2-Hexanone	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Iodomethane	20000	U	20000	4000	ug/L			05/05/11 23:12	4000
Isobutyl alcohol	160000	U	160000	44000	ug/L			05/05/11 23:12	4000
Methacrylonitrile	80000	U	80000	13000	ug/L			05/05/11 23:12	4000
Methylene Chloride	20000	U	20000	4000	ug/L			05/05/11 23:12	4000
Methyl methacrylate	4000	U	4000	1900	ug/L			05/05/11 23:12	4000
4-Methyl-2-pentanone (MIBK)	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Methyl tert-butyl ether	40000	U	40000	800	ug/L			05/05/11 23:12	4000
n-Heptane	4000	U	4000	1700	ug/L			05/05/11 23:12	4000
Pentachloroethane	20000	U	20000	4800	ug/L			05/05/11 23:12	4000
Propionitrile	80000	U	80000	18000	ug/L			05/05/11 23:12	4000
Propylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:12	4000
Styrene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
t-Butanol	**94000**	**D**	20000	10000	ug/L			05/05/11 23:12	4000
1,1,1,2-Tetrachloroethane	4000	U	4000	1300	ug/L			05/05/11 23:12	4000
1,1,2,2-Tetrachloroethane	4000	U	4000	720	ug/L			05/05/11 23:12	4000
Tetrachloroethene	4000	U	4000	600	ug/L			05/05/11 23:12	4000
Toluene	4000	U	4000	1300	ug/L			05/05/11 23:12	4000
trans-1,4-Dichloro-2-butene	8000	U	8000	2000	ug/L			05/05/11 23:12	4000
trans-1,2-Dichloroethene	4000	U	4000	800	ug/L			05/05/11 23:12	4000
trans-1,3-Dichloropropene	4000	U	4000	840	ug/L			05/05/11 23:12	4000
1,2,3-Trichlorobenzene	4000	U	4000	1400	ug/L			05/05/11 23:12	4000
1,1,1-Trichloroethane	4000	U	4000	2000	ug/L			05/05/11 23:12	4000
1,1,2-Trichloroethane	4000	U	4000	520	ug/L			05/05/11 23:12	4000
Trichloroethylene	4000	U	4000	520	ug/L			05/05/11 23:12	4000
Trichlorofluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
1,2,3-Trichloropropane	4000	U	4000	1600	ug/L			05/05/11 23:12	4000
Vinyl acetate	8000	U	8000	1100	ug/L			05/05/11 23:12	4000
Vinyl chloride	4000	U	4000	720	ug/L			05/05/11 23:12	4000
Xylenes, Total	8000	U	8000	800	ug/L			05/05/11 23:12	4000

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 23:12*	*4000*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/05/11 23:12*	*4000*
Dibromofluoromethane	*98*		*70 - 130*		*05/05/11 23:12*	*4000*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/11 23:12*	*4000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/03/11 14:47	05/09/11 22:37	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 22:37	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 22:37	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,4-Dichlorobenzene	**0.10**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 22:37	1
3,3'-Dimethylbenzidine	19	U *	19	4.7	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 22:37	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,4-Dioxane	**7.6**		1.9	0.29	ug/L		05/03/11 14:47	05/09/11 22:37	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.95	U *	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 22:37	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorophene	470	U *	470	24	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 22:37	1
3 & 4 Methylphenol	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/09/11 22:37	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 22:37	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 22:37	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/03/11 14:47	05/09/11 22:37	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 22:37	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*20*	*T J*	*ug/L*		*6.33*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*26*	*T J*	*ug/L*		*6.43*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*84*	*T J*	*ug/L*		*7.51*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*28*	*T J*	*ug/L*		*7.56*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*34*	*T J*	*ug/L*		*7.59*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*25*	*T J*	*ug/L*		*7.81*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*28*	*T J*	*ug/L*		*7.93*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*31*	*T J*	*ug/L*		*9.55*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*36*	*T J*	*ug/L*		*9.58*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*110*	*T J*	*ug/L*		*9.70*		*05/03/11 14:47*	*05/09/11 22:37*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*34 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
2-Fluorophenol	*56*		*25 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
Nitrobenzene-d5	*68*		*32 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
Phenol-d5	*62*		*27 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
Terphenyl-d14	*55*		*36 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
2,4,6-Tribromophenol	*71*		*30 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 21:54	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 20:24	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 20:24	1
Methanol	1000	U	1000	830	ug/L			05/12/11 20:24	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**100**		100	50	ug/L		05/03/11 17:39	05/06/11 01:29	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:29	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.7**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:29	1
Barium	**81**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:29	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:29	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:29	1
Calcium	**38000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:29	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:29	1
Cobalt	**14**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 01:29	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:29	1
Iron	**2800**		100	44	ug/L		05/03/11 17:39	05/06/11 01:29	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:29	1
Magnesium	**17000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:29	1
Manganese	**1700**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:29	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:29	1
Nickel	**19**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:29	1
Potassium	**1100**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:29	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:29	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:29	1
Sodium	**1100000**		5000	1700	ug/L		05/03/11 17:39	05/06/11 09:54	10
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:29	1
Vanadium	**4.0**	**J**	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:29	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:39	05/06/11 01:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250000**		5000	900	ug/L			05/17/11 11:24	5
Nitrogen, Kjeldahl	**2400**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**4300**		250	50	ug/L			04/29/11 18:17	5
Nitrite as N	250	U	250	50	ug/L			04/29/11 18:17	5
Sulfate	5000	U	5000	2500	ug/L			05/17/11 13:23	1
Total Organic Carbon	**73000**		1000	500	ug/L			05/17/11 13:31	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**34**		25	5.0	ug/L			05/05/11 17:25	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 17:25	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 17:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 17:25	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 17:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 17:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 17:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 17:25	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 17:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 17:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 17:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 17:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 17:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 17:25	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 17:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 17:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 17:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 17:25	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 17:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 17:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 17:25	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 17:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 17:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 17:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 17:25	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 17:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 17:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 17:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 17:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 17:25	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 17:25	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 17:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 17:25	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 17:25	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 17:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
t-Butanol	**100000**	**E**	5.0	2.6	ug/L			05/05/11 17:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 17:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 17:25	1

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.30	J	1.0	0.15	ug/L			05/05/11 17:25	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 17:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 17:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 17:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 17:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 17:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 17:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 17:25	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 17:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 17:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 17:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 17:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 17:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.6*	*T J N*	*ug/L*		*1.24*			*05/05/11 17:25*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/05/11 17:25*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/05/11 17:25*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/05/11 17:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100000	U	100000	20000	ug/L			05/05/11 23:35	4000
Acetonitrile	160000	U	160000	40000	ug/L			05/05/11 23:35	4000
Acrolein	80000	U	80000	30000	ug/L			05/05/11 23:35	4000
Acrylonitrile	80000	U	80000	29000	ug/L			05/05/11 23:35	4000
Allyl chloride	4000	U	4000	800	ug/L			05/05/11 23:35	4000
Benzene	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Benzyl chloride	4000	U	4000	4000	ug/L			05/05/11 23:35	4000
Bromodichloromethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Bromoform	4000	U	4000	2000	ug/L			05/05/11 23:35	4000
Bromomethane	4000	U	4000	3200	ug/L			05/05/11 23:35	4000
2-Butanone	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Carbon disulfide	8000	U	8000	2400	ug/L			05/05/11 23:35	4000
Carbon tetrachloride	4000	U	4000	2000	ug/L			05/05/11 23:35	4000
Chlorobenzene	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Chloroethane	4000	U	4000	4000	ug/L			05/05/11 23:35	4000
Chloroform	4000	U	4000	560	ug/L			05/05/11 23:35	4000
Chloromethane	4000	U	4000	1300	ug/L			05/05/11 23:35	4000
Chloroprene	4000	U	4000	1200	ug/L			05/05/11 23:35	4000
cis-1,2-Dichloroethene	4000	U	4000	600	ug/L			05/05/11 23:35	4000
cis-1,3-Dichloropropene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
Dibromochloromethane	4000	U	4000	400	ug/L			05/05/11 23:35	4000
1,2-Dibromo-3-Chloropropane	4000	U	4000	1800	ug/L			05/05/11 23:35	4000
1,2-Dibromoethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Dibromomethane	4000	U	4000	800	ug/L			05/05/11 23:35	4000
Dichlorodifluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
1,1-Dichloroethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	4000	U	4000	400	ug/L			05/05/11 23:35	4000
1,1-Dichloroethene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
1,2-Dichloropropane	4000	U	4000	520	ug/L			05/05/11 23:35	4000
Diethyl ether	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Ethylbenzene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
Ethylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:35	4000
Ethyl methacrylate	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
2-Hexanone	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Iodomethane	20000	U	20000	4000	ug/L			05/05/11 23:35	4000
Isobutyl alcohol	160000	U	160000	44000	ug/L			05/05/11 23:35	4000
Methacrylonitrile	80000	U	80000	13000	ug/L			05/05/11 23:35	4000
Methylene Chloride	20000	U	20000	4000	ug/L			05/05/11 23:35	4000
Methyl methacrylate	4000	U	4000	1900	ug/L			05/05/11 23:35	4000
4-Methyl-2-pentanone (MIBK)	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Methyl tert-butyl ether	40000	U	40000	800	ug/L			05/05/11 23:35	4000
n-Heptane	4000	U	4000	1700	ug/L			05/05/11 23:35	4000
Pentachloroethane	20000	U	20000	4800	ug/L			05/05/11 23:35	4000
Propionitrile	80000	U	80000	18000	ug/L			05/05/11 23:35	4000
Propylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:35	4000
Styrene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
t-Butanol	**83000**	**D**	20000	10000	ug/L			05/05/11 23:35	4000
1,1,1,2-Tetrachloroethane	4000	U	4000	1300	ug/L			05/05/11 23:35	4000
1,1,2,2-Tetrachloroethane	4000	U	4000	720	ug/L			05/05/11 23:35	4000
Tetrachloroethene	4000	U	4000	600	ug/L			05/05/11 23:35	4000
Toluene	4000	U	4000	1300	ug/L			05/05/11 23:35	4000
trans-1,4-Dichloro-2-butene	8000	U	8000	2000	ug/L			05/05/11 23:35	4000
trans-1,2-Dichloroethene	4000	U	4000	800	ug/L			05/05/11 23:35	4000
trans-1,3-Dichloropropene	4000	U	4000	840	ug/L			05/05/11 23:35	4000
1,2,3-Trichlorobenzene	4000	U	4000	1400	ug/L			05/05/11 23:35	4000
1,1,1-Trichloroethane	4000	U	4000	2000	ug/L			05/05/11 23:35	4000
1,1,2-Trichloroethane	4000	U	4000	520	ug/L			05/05/11 23:35	4000
Trichloroethylene	4000	U	4000	520	ug/L			05/05/11 23:35	4000
Trichlorofluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
1,2,3-Trichloropropane	4000	U	4000	1600	ug/L			05/05/11 23:35	4000
Vinyl acetate	8000	U	8000	1100	ug/L			05/05/11 23:35	4000
Vinyl chloride	4000	U	4000	720	ug/L			05/05/11 23:35	4000
Xylenes, Total	8000	U	8000	800	ug/L			05/05/11 23:35	4000

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 23:35*	*4000*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 23:35*	*4000*
Dibromofluoromethane	*101*		*70 - 130*		*05/05/11 23:35*	*4000*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 23:35*	*4000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 23:04	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 23:04	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 23:04	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,4-Dichlorobenzene	**0.15**	**J B**	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 23:04	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 23:04	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/03/11 14:47	05/09/11 23:04	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 23:04	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,4-Dioxane	**6.8**		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 23:04	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.96	U *	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 23:04	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 23:04	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 23:04	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 23:04	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 23:04	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 23:04	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 23:04	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 23:04	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 23:04	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*21*	*T J*	*ug/L*		*6.43*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*70*	*T J*	*ug/L*		*7.51*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*24*	*T J*	*ug/L*		*7.56*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*28*	*T J*	*ug/L*		*7.59*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*22*	*T J*	*ug/L*		*7.81*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*26*	*T J*	*ug/L*		*7.92*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*45*	*T J*	*ug/L*		*9.55*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*43*	*T J*	*ug/L*		*9.58*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*160*	*T J*	*ug/L*		*9.69*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown Organic Acid	*20*	*T J*	*ug/L*		*11.12*		*05/03/11 14:47*	*05/09/11 23:04*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*34 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
2-Fluorophenol	*48*		*25 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
Nitrobenzene-d5	*54*		*32 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
Phenol-d5	*53*		*27 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
Terphenyl-d14	*54*		*36 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
2,4,6-Tribromophenol	*74*		*30 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 22:18	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 20:48	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 20:48	1
Methanol	1000	U	1000	830	ug/L			05/12/11 20:48	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**340**		100	50	ug/L		05/03/11 17:39	05/06/11 01:36	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:36	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.1**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:36	1
Barium	**94**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:36	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:36	1
Cadmium	**0.36**	**J**	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:36	1
Calcium	**40000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:36	1
Chromium	**2.5**	**J**	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:36	1
Cobalt	**16**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 01:36	1
Copper	**1.2**	**J**	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:36	1
Iron	**3200**		100	44	ug/L		05/03/11 17:39	05/06/11 01:36	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:36	1
Magnesium	**18000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:36	1
Manganese	**1800**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:36	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:36	1
Nickel	**22**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:36	1
Potassium	**1300**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:36	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:36	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:36	1
Sodium	**1200000**		5000	1700	ug/L		05/03/11 17:39	05/06/11 10:01	10
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:36	1
Vanadium	**5.0**	**J**	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:36	1
Zinc	**20**		20	8.4	ug/L		05/03/11 17:39	05/06/11 01:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250000**		5000	900	ug/L			05/17/11 11:20	5
Nitrogen, Kjeldahl	**2900**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**400**		50	10	ug/L			04/29/11 17:41	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:41	1
Sulfate	5000	U	5000	2500	ug/L			05/17/11 13:23	1
Total Organic Carbon	**73000**		1000	500	ug/L			05/17/11 13:50	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**35**		25	5.0	ug/L			05/04/11 16:23	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 16:23	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 16:23	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 16:23	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 16:23	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 16:23	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 16:23	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 16:23	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 16:23	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 16:23	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 16:23	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 16:23	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 16:23	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 16:23	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 16:23	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.15	ug/L			05/04/11 16:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 16:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 16:23	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 16:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 16:23	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 16:23	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 16:23	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 16:23	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 16:23	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 16:23	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 16:23	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 16:23	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 16:23	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 16:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 16:23	1
Methyl tert-butyl ether	**2.6**	**J**	10	0.20	ug/L			05/04/11 16:23	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 16:23	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 16:23	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 16:23	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 16:23	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
t-Butanol	**24000**	**E**	5.0	2.6	ug/L			05/04/11 16:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 16:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 16:23	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 16:23	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 16:23	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 16:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 16:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 16:23	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 16:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 16:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 16:23	1
Trichloroethylene	**3.2**		1.0	0.13	ug/L			05/04/11 16:23	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 16:23	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 16:23	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 16:23	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 16:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J N*	*ug/L*		*2.39*			*05/04/11 16:23*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/04/11 16:23*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/04/11 16:23*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/04/11 16:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12000	U	12000	2500	ug/L			05/05/11 22:49	500
Acetonitrile	20000	U	20000	5000	ug/L			05/05/11 22:49	500
Acrolein	10000	U	10000	3700	ug/L			05/05/11 22:49	500
Acrylonitrile	10000	U	10000	3600	ug/L			05/05/11 22:49	500
Allyl chloride	500	U	500	100	ug/L			05/05/11 22:49	500
Benzene	500	U	500	120	ug/L			05/05/11 22:49	500
Benzyl chloride	500	U	500	500	ug/L			05/05/11 22:49	500
Bromodichloromethane	500	U	500	120	ug/L			05/05/11 22:49	500
Bromoform	500	U	500	250	ug/L			05/05/11 22:49	500
Bromomethane	500	U	500	400	ug/L			05/05/11 22:49	500
2-Butanone	5000	U	5000	500	ug/L			05/05/11 22:49	500
Carbon disulfide	1000	U	1000	300	ug/L			05/05/11 22:49	500
Carbon tetrachloride	500	U	500	250	ug/L			05/05/11 22:49	500
Chlorobenzene	500	U	500	120	ug/L			05/05/11 22:49	500
Chloroethane	500	U	500	500	ug/L			05/05/11 22:49	500
Chloroform	500	U	500	70	ug/L			05/05/11 22:49	500
Chloromethane	500	U	500	160	ug/L			05/05/11 22:49	500
Chloroprene	500	U	500	150	ug/L			05/05/11 22:49	500
cis-1,2-Dichloroethene	500	U	500	75	ug/L			05/05/11 22:49	500
cis-1,3-Dichloropropene	500	U	500	55	ug/L			05/05/11 22:49	500
Dibromochloromethane	500	U	500	50	ug/L			05/05/11 22:49	500
1,2-Dibromo-3-Chloropropane	500	U	500	220	ug/L			05/05/11 22:49	500
1,2-Dibromoethane	500	U	500	120	ug/L			05/05/11 22:49	500
Dibromomethane	500	U	500	100	ug/L			05/05/11 22:49	500
Dichlorodifluoromethane	500	U	500	120	ug/L			05/05/11 22:49	500
1,1-Dichloroethane	500	U	500	120	ug/L			05/05/11 22:49	500

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	500	U	500	50	ug/L			05/05/11 22:49	500
1,1-Dichloroethene	500	U	500	55	ug/L			05/05/11 22:49	500
1,2-Dichloropropane	500	U	500	65	ug/L			05/05/11 22:49	500
Diethyl ether	5000	U	5000	500	ug/L			05/05/11 22:49	500
Ethylbenzene	500	U	500	55	ug/L			05/05/11 22:49	500
Ethylene oxide	100000	U	100000	100000	ug/L			05/05/11 22:49	500
Ethyl methacrylate	500	U	500	120	ug/L			05/05/11 22:49	500
2-Hexanone	5000	U	5000	500	ug/L			05/05/11 22:49	500
Iodomethane	2500	U	2500	500	ug/L			05/05/11 22:49	500
Isobutyl alcohol	20000	U	20000	5500	ug/L			05/05/11 22:49	500
Methacrylonitrile	10000	U	10000	1600	ug/L			05/05/11 22:49	500
Methylene Chloride	2500	U	2500	500	ug/L			05/05/11 22:49	500
Methyl methacrylate	500	U	500	240	ug/L			05/05/11 22:49	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	500	ug/L			05/05/11 22:49	500
Methyl tert-butyl ether	5000	U	5000	100	ug/L			05/05/11 22:49	500
n-Heptane	500	U	500	210	ug/L			05/05/11 22:49	500
Pentachloroethane	2500	U	2500	600	ug/L			05/05/11 22:49	500
Propionitrile	10000	U	10000	2300	ug/L			05/05/11 22:49	500
Propylene oxide	100000	U	100000	100000	ug/L			05/05/11 22:49	500
Styrene	500	U	500	55	ug/L			05/05/11 22:49	500
t-Butanol	**18000**	**D**	2500	1300	ug/L			05/05/11 22:49	500
1,1,1,2-Tetrachloroethane	500	U	500	160	ug/L			05/05/11 22:49	500
1,1,2,2-Tetrachloroethane	500	U	500	90	ug/L			05/05/11 22:49	500
Tetrachloroethene	500	U	500	75	ug/L			05/05/11 22:49	500
Toluene	500	U	500	160	ug/L			05/05/11 22:49	500
trans-1,4-Dichloro-2-butene	1000	U	1000	250	ug/L			05/05/11 22:49	500
trans-1,2-Dichloroethene	500	U	500	100	ug/L			05/05/11 22:49	500
trans-1,3-Dichloropropene	500	U	500	100	ug/L			05/05/11 22:49	500
1,2,3-Trichlorobenzene	500	U	500	180	ug/L			05/05/11 22:49	500
1,1,1-Trichloroethane	500	U	500	250	ug/L			05/05/11 22:49	500
1,1,2-Trichloroethane	500	U	500	65	ug/L			05/05/11 22:49	500
Trichloroethylene	500	U	500	65	ug/L			05/05/11 22:49	500
Trichlorofluoromethane	500	U	500	120	ug/L			05/05/11 22:49	500
1,2,3-Trichloropropane	500	U	500	200	ug/L			05/05/11 22:49	500
Vinyl acetate	1000	U	1000	140	ug/L			05/05/11 22:49	500
Vinyl chloride	500	U	500	90	ug/L			05/05/11 22:49	500
Xylenes, Total	1000	U	1000	100	ug/L			05/05/11 22:49	500

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 22:49*	*500*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/05/11 22:49*	*500*
Dibromofluoromethane	*100*		*70 - 130*		*05/05/11 22:49*	*500*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/05/11 22:49*	*500*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/18/11 16:52	1
Aniline	1.9	U	1.9	0.94	ug/L		05/03/11 14:47	05/18/11 16:52	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzyl alcohol	0.96	U	0.96	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 16:52	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,4-Dichlorobenzene	**0.13**	**J B**	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dichlorophenol	0.96	U *	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/18/11 16:52	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 16:52	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dimethylphenol	1.9	U *	1.9	0.67	ug/L		05/03/11 14:47	05/18/11 16:52	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		05/03/11 14:47	05/18/11 16:52	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,6-Dinitrotoluene	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,4-Dioxane	**1.5**	**J**	1.9	0.30	ug/L		05/03/11 14:47	05/18/11 16:52	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 16:52	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Methapyrilene	190	U	190	1.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Methyl parathion	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/18/11 16:52	1
3 & 4 Methylphenol	1.9	U *	1.9	0.64	ug/L		05/03/11 14:47	05/18/11 16:52	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 16:52	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
o-Toluidine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phenol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/18/11 16:52	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
Sulfotepp	0.96	U	0.96	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*39*	*T J*	*ug/L*		*5.52*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown Organic Acid	*190*	*T J*	*ug/L*		*6.09*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*24*	*T J*	*ug/L*		*7.80*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*6.7*	*T J*	*ug/L*		*7.85*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*9.3*	*T J*	*ug/L*		*7.88*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown Organic Acid	*19*	*T J*	*ug/L*		*7.93*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*14*	*T J*	*ug/L*		*8.11*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*7.9*	*T J*	*ug/L*		*8.22*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*25*	*T J*	*ug/L*		*9.85*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*18*	*T J*	*ug/L*		*9.97*		*05/03/11 14:47*	*05/18/11 16:52*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*34 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
2-Fluorophenol	*53*		*25 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
Nitrobenzene-d5	*56*		*32 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
Phenol-d5	*54*		*27 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
Terphenyl-d14	*60*		*36 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
2,4,6-Tribromophenol	*77*		*30 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 22:42	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 21:12	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 21:12	1
Methanol	**1000000**	**E**	1000	830	ug/L			05/12/11 21:12	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	**4400000**	**H D**	50000	42000	ug/L			05/13/11 12:47	50

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-2

Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5

Matrix: Water

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1200**		100	50	ug/L		05/03/11 17:39	05/06/11 01:43	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:43	1
Arsenic	**3.9**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:43	1
Barium	**53**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:43	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:43	1
Cadmium	**0.27**	**J**	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:43	1
Calcium	**20000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:43	1
Chromium	**3.5**	**J**	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:43	1
Cobalt	**3.8**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 01:43	1
Copper	**1.6**	**J**	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:43	1
Iron	**6800**		100	44	ug/L		05/03/11 17:39	05/06/11 01:43	1
Lead	**0.74**	**J**	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:43	1
Magnesium	**11000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:43	1
Manganese	**160**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:43	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:43	1
Nickel	**4.4**	**J**	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:43	1
Potassium	**1700**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:43	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:43	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:43	1
Sodium	**440000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:43	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:43	1
Vanadium	**4.6**	**J**	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:43	1
Zinc	**17**	**J**	20	8.4	ug/L		05/03/11 17:39	05/06/11 01:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110000**		2000	360	ug/L			05/17/11 11:24	2
Nitrogen, Kjeldahl	**1900**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**530**		50	10	ug/L			04/29/11 17:42	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:42	1
Sulfate	**150000**		25000	12000	ug/L			05/17/11 13:59	5
Total Organic Carbon	**16000**		1000	500	ug/L			05/17/11 14:09	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-1
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 13:28	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 13:28	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 13:28	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 13:28	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 13:28	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 13:28	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 13:28	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 13:28	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 13:28	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 13:28	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 13:28	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 13:28	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 13:28	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:28	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 13:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 13:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 13:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 13:28	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 13:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 13:28	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 13:28	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 13:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 13:28	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 13:28	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 13:28	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 13:28	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 13:28	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 13:28	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 13:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 13:28	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 13:28	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 13:28	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 13:28	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 13:28	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 13:28	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/05/11 13:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 13:28	1

Client Sample ID: NAT-1

Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 13:28	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 13:28	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 13:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 13:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 13:28	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 13:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 13:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 13:28	1
Trichloroethylene	**28**		1.0	0.13	ug/L			05/05/11 13:28	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 13:28	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 13:28	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 13:28	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 13:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.0*	*T J N*	*ug/L*		*1.58*			*05/05/11 13:28*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/05/11 13:28*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/05/11 13:28*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 13:28*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 23:06	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 21:35	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 21:35	1
Methanol	1000	U	1000	830	ug/L			05/12/11 21:35	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**680**		100	50	ug/L		05/03/11 17:39	05/05/11 23:44	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:44	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:39	05/05/11 23:44	1
Barium	**55**		5.0	1.4	ug/L		05/03/11 17:39	05/05/11 23:44	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/05/11 23:44	1
Cadmium	**0.63**		0.50	0.13	ug/L		05/03/11 17:39	05/05/11 23:44	1
Calcium	**91000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:44	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/05/11 23:44	1
Cobalt	**41**		0.50	0.12	ug/L		05/03/11 17:39	05/05/11 23:44	1
Copper	**3.8**	**J**	5.0	1.1	ug/L		05/03/11 17:39	05/05/11 23:44	1
Iron	**680**		100	44	ug/L		05/03/11 17:39	05/05/11 23:44	1
Lead	**1.3**	**J**	1.5	0.50	ug/L		05/03/11 17:39	05/05/11 23:44	1
Magnesium	**31000**		250	100	ug/L		05/03/11 17:39	05/05/11 23:44	1
Manganese	**2300**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:44	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/05/11 23:44	1
Nickel	**14**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:44	1
Potassium	**3900**		1000	330	ug/L		05/03/11 17:39	05/05/11 23:44	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/05/11 23:44	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/05/11 23:44	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-1
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**120000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:44	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/05/11 23:44	1
Vanadium	**3.7**	**J**	10	3.2	ug/L		05/03/11 17:39	05/05/11 23:44	1
Zinc	**18**	**J**	20	8.4	ug/L		05/03/11 17:39	05/05/11 23:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78000**		1000	180	ug/L			05/17/11 10:45	1
Nitrogen, Kjeldahl	**350**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**13000**		1000	200	ug/L			04/29/11 18:20	20
Nitrite as N	1000	U	1000	200	ug/L			04/29/11 18:20	20
Sulfate	**340000**		50000	25000	ug/L			05/17/11 13:57	10
Total Organic Carbon	**1500**		1000	500	ug/L			05/17/11 14:29	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 17:20	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 17:20	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 17:20	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 17:20	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 17:20	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 17:20	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 17:20	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 17:20	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 17:20	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 17:20	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 17:20	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 17:20	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 17:20	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 17:20	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 17:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 17:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 17:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 17:20	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 17:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 17:20	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 17:20	1
Diethyl ether	**1.8**	**J**	10	1.0	ug/L			05/04/11 17:20	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 17:20	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 17:20	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 17:20	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 17:20	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 17:20	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 17:20	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 17:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 17:20	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 17:20	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 17:20	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 17:20	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 17:20	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 17:20	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
t-Butanol	**240**	**E**	5.0	2.6	ug/L			05/04/11 17:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 17:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 17:20	1

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 17:20	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 17:20	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 17:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 17:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 17:20	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 17:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 17:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 17:20	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 17:20	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 17:20	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 17:20	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 17:20	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 17:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*6.1*	*T J N*	*ug/L*		*1.44*			*05/04/11 17:20*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/04/11 17:20*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 17:20*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 17:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/05/11 15:59	5
Acetonitrile	200	U	200	50	ug/L			05/05/11 15:59	5
Acrolein	100	U	100	37	ug/L			05/05/11 15:59	5
Acrylonitrile	100	U	100	36	ug/L			05/05/11 15:59	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
Benzene	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/05/11 15:59	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/05/11 15:59	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/05/11 15:59	5
2-Butanone	50	U	50	5.0	ug/L			05/05/11 15:59	5
Carbon disulfide	10	U	10	3.0	ug/L			05/05/11 15:59	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/05/11 15:59	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/05/11 15:59	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/05/11 15:59	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/05/11 15:59	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/05/11 15:59	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 15:59	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/05/11 15:59	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/05/11 15:59	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/05/11 15:59	5
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/05/11 15:59	5
Diethyl ether	50	U	50	5.0	ug/L			05/05/11 15:59	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/05/11 15:59	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
2-Hexanone	50	U	50	5.0	ug/L			05/05/11 15:59	5
Iodomethane	25	U	25	5.0	ug/L			05/05/11 15:59	5
Isobutyl alcohol	200	U	200	55	ug/L			05/05/11 15:59	5
Methacrylonitrile	100	U	100	16	ug/L			05/05/11 15:59	5
Methylene Chloride	25	U	25	5.0	ug/L			05/05/11 15:59	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/05/11 15:59	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/05/11 15:59	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/05/11 15:59	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/05/11 15:59	5
Pentachloroethane	25	U	25	6.0	ug/L			05/05/11 15:59	5
Propionitrile	100	U	100	23	ug/L			05/05/11 15:59	5
Propylene oxide	1000	U	1000	1000	ug/L			05/05/11 15:59	5
Styrene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
t-Butanol	**270**	**D**	25	13	ug/L			05/05/11 15:59	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/05/11 15:59	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/05/11 15:59	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 15:59	5
Toluene	5.0	U	5.0	1.6	ug/L			05/05/11 15:59	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/05/11 15:59	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/05/11 15:59	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/05/11 15:59	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/05/11 15:59	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/05/11 15:59	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/05/11 15:59	5
Vinyl acetate	10	U	10	1.4	ug/L			05/05/11 15:59	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/05/11 15:59	5
Xylenes, Total	10	U	10	1.0	ug/L			05/05/11 15:59	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 15:59*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/05/11 15:59*	*5*
Dibromofluoromethane	*104*		*70 - 130*		*05/05/11 15:59*	*5*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/05/11 15:59*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 23:30	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 21:59	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 21:59	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	1000	U	1000	830	ug/L			05/12/11 21:59	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8000**		100	50	ug/L		05/03/11 17:39	05/06/11 00:19	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:19	1
Arsenic	**6.6**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:19	1
Barium	**210**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:19	1
Beryllium	**0.54**		0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:19	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:19	1
Calcium	**12000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:19	1
Chromium	**16**		5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:19	1
Cobalt	**9.5**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 00:19	1
Copper	**7.0**		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:19	1
Iron	**130000**		100	44	ug/L		05/03/11 17:39	05/06/11 00:19	1
Lead	**10**		1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:19	1
Magnesium	**25000**		250	100	ug/L		05/03/11 17:39	05/06/11 00:19	1
Manganese	**420**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:19	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:19	1
Nickel	**13**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:19	1
Potassium	**1100**		1000	330	ug/L		05/03/11 17:39	05/06/11 00:19	1
Selenium	**1.2**	**J**	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:19	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:19	1
Sodium	**58000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:19	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:19	1
Vanadium	**26**		10	3.2	ug/L		05/03/11 17:39	05/06/11 00:19	1
Zinc	**22**		20	8.4	ug/L		05/03/11 17:39	05/06/11 00:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59000**		1000	180	ug/L			05/17/11 10:45	1
Nitrogen, Kjeldahl	**3900**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:46	1
Nitrite as N	**11**	**J**	50	10	ug/L			04/29/11 17:46	1
Sulfate	**21000**		5000	2500	ug/L			05/17/11 13:25	1
Total Organic Carbon	**28000**		1000	500	ug/L			05/17/11 14:45	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 13:56	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 13:56	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 13:56	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 13:56	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 13:56	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 13:56	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 13:56	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 13:56	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 13:56	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 13:56	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 13:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 13:56	1
Chloroform	**0.94**	**J**	1.0	0.14	ug/L			05/05/11 13:56	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:56	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 13:56	1
cis-1,2-Dichloroethene	**0.36**	**J**	1.0	0.15	ug/L			05/05/11 13:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 13:56	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 13:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 13:56	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 13:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
1,1-Dichloroethane	**1.4**		1.0	0.25	ug/L			05/05/11 13:56	1
1,2-Dichloroethane	**0.21**	**J**	1.0	0.10	ug/L			05/05/11 13:56	1
1,1-Dichloroethene	**1.8**		1.0	0.11	ug/L			05/05/11 13:56	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 13:56	1
Diethyl ether	**20**		10	1.0	ug/L			05/05/11 13:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 13:56	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 13:56	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 13:56	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 13:56	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 13:56	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 13:56	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 13:56	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 13:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 13:56	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 13:56	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 13:56	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 13:56	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 13:56	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 13:56	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 13:56	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/05/11 13:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:56	1
1,1,2,2-Tetrachloroethane	**0.50**	**J**	1.0	0.18	ug/L			05/05/11 13:56	1

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**13**		1.0	0.15	ug/L			05/05/11 13:56	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 13:56	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 13:56	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.20	ug/L			05/05/11 13:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 13:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 13:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 13:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 13:56	1
Trichloroethylene	**2.1**		1.0	0.13	ug/L			05/05/11 13:56	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 13:56	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 13:56	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 13:56	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 13:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 13:56*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/05/11 13:56*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/05/11 13:56*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/11 13:56*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/18/11 17:19	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/18/11 17:19	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 17:19	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,4-Dichlorobenzene	**0.14**	**J B**	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dichlorophenol	0.96	U *	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 17:19	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		05/03/11 14:47	05/18/11 17:19	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,6-Dinitrotoluene	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,4-Dioxane	**24**		1.9	0.30	ug/L		05/03/11 14:47	05/18/11 17:19	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 17:19	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorobutadiene	**0.12**	**J**	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Methapyrilene	190	U	190	1.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Methyl parathion	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/18/11 17:19	1
3 & 4 Methylphenol	1.9	U *	1.9	0.64	ug/L		05/03/11 14:47	05/18/11 17:19	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 17:19	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
o-Toluidine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:19	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/18/11 17:19	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:19	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*24*	*T A J*	*ug/L*		*4.30*		*05/03/11 14:47*	*05/18/11 17:19*	*1*
Unknown	*1.6*	*T J*	*ug/L*		*5.33*		*05/03/11 14:47*	*05/18/11 17:19*	*1*
Unknown	*1.1*	*T J*	*ug/L*		*5.64*		*05/03/11 14:47*	*05/18/11 17:19*	*1*

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.76	T J	ug/L		6.38		05/03/11 14:47	05/18/11 17:19	1
Unknown	1.0	T J	ug/L		8.96		05/03/11 14:47	05/18/11 17:19	1
Diethyltoluamide	7.7	T J N	ug/L		9.69	134-62-3	05/03/11 14:47	05/18/11 17:19	1
Unknown Organic Acid	1.8	T J	ug/L		12.46		05/03/11 14:47	05/18/11 17:19	1
Unknown	1.6	T J	ug/L		12.67		05/03/11 14:47	05/18/11 17:19	1
Octadecanoic acid, butyl ester	1.2	T J N	ug/L		13.53	123-95-5	05/03/11 14:47	05/18/11 17:19	1
Acetic acid, (triphenylphosphoranylidene	2.6	T J N	ug/L		14.33	2605-67-6	05/03/11 14:47	05/18/11 17:19	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		34 - 130	05/03/11 14:47	05/18/11 17:19	1
2-Fluorophenol	55		25 - 130	05/03/11 14:47	05/18/11 17:19	1
Nitrobenzene-d5	65		32 - 130	05/03/11 14:47	05/18/11 17:19	1
Phenol-d5	54		27 - 130	05/03/11 14:47	05/18/11 17:19	1
Terphenyl-d14	70		36 - 130	05/03/11 14:47	05/18/11 17:19	1
2,4,6-Tribromophenol	74		30 - 130	05/03/11 14:47	05/18/11 17:19	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 23:54	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 22:23	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 22:23	1
Methanol	1000	U	1000	830	ug/L			05/12/11 22:23	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**680**		100	50	ug/L		05/03/11 17:39	05/06/11 00:26	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:26	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:26	1
Barium	**15**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:26	1
Beryllium	**0.25**	**J**	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:26	1
Cadmium	**4.5**		0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:26	1
Calcium	**130000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:26	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:26	1
Cobalt	**91**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 00:26	1
Copper	**3.0**	**J**	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:26	1
Iron	**550**		100	44	ug/L		05/03/11 17:39	05/06/11 00:26	1
Lead	**0.54**	**J**	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:26	1
Magnesium	**38000**		250	100	ug/L		05/03/11 17:39	05/06/11 00:26	1
Manganese	**4700**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:26	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:26	1
Nickel	**73**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:26	1
Potassium	**4900**		1000	330	ug/L		05/03/11 17:39	05/06/11 00:26	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:26	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:26	1
Sodium	**210000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:26	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:26	1
Vanadium	**3.3**	**J**	10	3.2	ug/L		05/03/11 17:39	05/06/11 00:26	1
Zinc	**37**		20	8.4	ug/L		05/03/11 17:39	05/06/11 00:26	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250000**		5000	900	ug/L			05/17/11 11:20	5
Nitrogen, Kjeldahl	**280**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**5700**		250	50	ug/L			04/29/11 18:32	5
Nitrite as N	250	U	250	50	ug/L			04/29/11 18:32	5
Sulfate	**530000**		100000	50000	ug/L			05/17/11 14:12	20
Total Organic Carbon	**1400**		1000	500	ug/L			05/17/11 15:06	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 13:30	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 13:30	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 13:30	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 13:30	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 13:30	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 13:30	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 13:30	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 13:30	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 13:30	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 13:30	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 13:30	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 13:30	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 13:30	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:30	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 13:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 13:30	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 13:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:30	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 13:30	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 13:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 13:30	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 13:30	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 13:30	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 13:30	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 13:30	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 13:30	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 13:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 13:30	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 13:30	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 13:30	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 13:30	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 13:30	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 13:30	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 13:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 13:30	1

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:30	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 13:30	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 13:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 13:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 13:30	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 13:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 13:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 13:30	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 13:30	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 13:30	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 13:30	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 13:30	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 13:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 13:30*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 13:30*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 13:30*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/04/11 13:30*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Acetophenone	**0.099**	**J B**	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/05/11 14:45	05/18/11 18:40	1
Aniline	1.9	U	1.9	0.93	ug/L		05/05/11 14:45	05/18/11 18:40	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/05/11 14:45	05/18/11 18:40	1
Diallate	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,4-Dichlorobenzene	**0.14**	**J B**	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/05/11 14:45	05/18/11 18:40	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/05/11 14:45	05/18/11 18:40	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/05/11 14:45	05/18/11 18:40	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Famphur	0.95	U	0.95	0.15	ug/L		05/05/11 14:45	05/18/11 18:40	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorophene	480	U *	480	24	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Methapyrilene	190	U *	190	1.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/05/11 14:45	05/18/11 18:40	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/05/11 14:45	05/18/11 18:40	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/05/11 14:45	05/18/11 18:40	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pentachlorophenol	4.8	U *	4.8	0.38	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenol	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phorate	0.95	U	0.95	0.19	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/05/11 14:45	05/18/11 18:40	1
p-Phenylene diamine	190	U	190	15	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/05/11 14:45	05/18/11 18:40	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/05/11 14:45	05/18/11 18:40	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*37*	*T A J*	*ug/L*		*4.30*		*05/05/11 14:45*	*05/18/11 18:40*	*1*
Unknown	*2.7*	*T J*	*ug/L*		*4.81*		*05/05/11 14:45*	*05/18/11 18:40*	*1*
Unknown	*1.9*	*T J*	*ug/L*		*5.26*		*05/05/11 14:45*	*05/18/11 18:40*	*1*

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8.2	T J	ug/L		5.33		05/05/11 14:45	05/18/11 18:40	1
Benzaldehyde	0.57	J *	ug/L		5.47	100-52-7	05/05/11 14:45	05/18/11 18:40	1
Unknown	0.50	T J	ug/L		5.99		05/05/11 14:45	05/18/11 18:40	1
Unknown	1.2	T J	ug/L		6.57		05/05/11 14:45	05/18/11 18:40	1
Unknown	2.1	T J	ug/L		8.96		05/05/11 14:45	05/18/11 18:40	1
Unknown	3.2	T J	ug/L		11.52		05/05/11 14:45	05/18/11 18:40	1
Unknown	1.8	T J	ug/L		12.67		05/05/11 14:45	05/18/11 18:40	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		34 - 130	05/05/11 14:45	05/18/11 18:40	1
2-Fluorophenol	66		25 - 130	05/05/11 14:45	05/18/11 18:40	1
Nitrobenzene-d5	72		32 - 130	05/05/11 14:45	05/18/11 18:40	1
Phenol-d5	68		27 - 130	05/05/11 14:45	05/18/11 18:40	1
Terphenyl-d14	78		36 - 130	05/05/11 14:45	05/18/11 18:40	1
2,4,6-Tribromophenol	71		30 - 130	05/05/11 14:45	05/18/11 18:40	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 00:18	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 22:47	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 22:47	1
Methanol	1000	U	1000	830	ug/L			05/12/11 22:47	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/03/11 17:39	05/06/11 00:33	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:33	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:33	1
Barium	5.0	U	5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:33	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:33	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:33	1
Calcium	500	U	500	170	ug/L		05/03/11 17:39	05/06/11 00:33	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:33	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/03/11 17:39	05/06/11 00:33	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:33	1
Iron	100	U	100	44	ug/L		05/03/11 17:39	05/06/11 00:33	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:33	1
Magnesium	250	U	250	100	ug/L		05/03/11 17:39	05/06/11 00:33	1
Manganese	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:33	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:33	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:33	1
Potassium	1000	U	1000	330	ug/L		05/03/11 17:39	05/06/11 00:33	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:33	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:33	1
Sodium	500	U	500	170	ug/L		05/03/11 17:39	05/06/11 00:33	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:33	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:39	05/06/11 00:33	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:39	05/06/11 00:33	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4300**		1000	180	ug/L			05/17/11 11:29	1
Nitrogen, Kjeldahl	**1300**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:48	1
Nitrite as N	**60**		50	10	ug/L			04/29/11 17:48	1
Sulfate	**4100**	**J**	5000	2500	ug/L			05/17/11 13:49	1
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 15:22	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 14:25	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 14:25	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 14:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 14:25	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 14:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 14:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 14:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 14:25	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 14:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 14:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 14:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 14:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 14:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 14:25	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 14:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 14:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 14:25	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 14:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 14:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 14:25	1
Diethyl ether	**93**		10	1.0	ug/L			05/05/11 14:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 14:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 14:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 14:25	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 14:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 14:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 14:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 14:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 14:25	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 14:25	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 14:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 14:25	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 14:25	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 14:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
t-Butanol	**6.1**		5.0	2.6	ug/L			05/05/11 14:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 14:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 14:25	1

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 14:25	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 14:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 14:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 14:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 14:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 14:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 14:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 14:25	1
Trichloroethylene	**0.54**	**J**	1.0	0.13	ug/L			05/05/11 14:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 14:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 14:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 14:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 14:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 14:25*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 14:25*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/05/11 14:25*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 14:25*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.17**	**J**	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Aminobiphenyl	4.8	U	4.8	0.29	ug/L		05/03/11 14:47	05/18/11 17:46	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/18/11 17:46	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 17:46	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,4-Dichlorobenzene	**0.12**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 17:46	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/18/11 17:46	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,4-Dioxane	**1.2**	**J**	1.9	0.29	ug/L		05/03/11 14:47	05/18/11 17:46	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 17:46	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Methylnaphthalene	**0.25**		0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/18/11 17:46	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/03/11 14:47	05/18/11 17:46	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
Naphthalene	**0.18**	**J**	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 17:46	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:46	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pyridine	4.8	U	4.8	0.69	ug/L		05/03/11 14:47	05/18/11 17:46	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:46	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*52*	*T J*	*ug/L*		*6.39*		*05/03/11 14:47*	*05/18/11 17:46*	*1*
Unknown	*2.4*	*T J*	*ug/L*		*7.10*		*05/03/11 14:47*	*05/18/11 17:46*	*1*
Unknown	*1.9*	*T J*	*ug/L*		*7.17*		*05/03/11 14:47*	*05/18/11 17:46*	*1*

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	160	T J	ug/L		8.24		05/03/11 14:47	05/18/11 17:46	1
Unknown	2.5	T J	ug/L		8.27		05/03/11 14:47	05/18/11 17:46	1
Unknown	3.0	T J	ug/L		8.84		05/03/11 14:47	05/18/11 17:46	1
Unknown	1.4	T J	ug/L		8.96		05/03/11 14:47	05/18/11 17:46	1
Unknown	49	T J	ug/L		9.84		05/03/11 14:47	05/18/11 17:46	1
Oleic Acid	2.2	T J N	ug/L		12.46	112-80-1	05/03/11 14:47	05/18/11 17:46	1
Acetic acid, (triphenylphosphoranylidene	3.3	T J N	ug/L		14.33	2605-67-6	05/03/11 14:47	05/18/11 17:46	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		34 - 130	05/03/11 14:47	05/18/11 17:46	1
2-Fluorophenol	50		25 - 130	05/03/11 14:47	05/18/11 17:46	1
Nitrobenzene-d5	55		32 - 130	05/03/11 14:47	05/18/11 17:46	1
Phenol-d5	52		27 - 130	05/03/11 14:47	05/18/11 17:46	1
Terphenyl-d14	69		36 - 130	05/03/11 14:47	05/18/11 17:46	1
2,4,6-Tribromophenol	71		30 - 130	05/03/11 14:47	05/18/11 17:46	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 00:42	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 23:11	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 23:11	1
Methanol	1000	U	1000	830	ug/L			05/12/11 23:11	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**460**		100	50	ug/L		05/03/11 17:39	05/06/11 01:50	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:50	1
Arsenic	**1.4**	**J**	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:50	1
Barium	**56**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:50	1
Beryllium	**3.0**		0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:50	1
Cadmium	**11**		0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:50	1
Calcium	**560000**		1000	340	ug/L		05/03/11 17:39	05/06/11 10:15	2
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:50	1
Cobalt	**440**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 01:50	1
Copper	**88**		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:50	1
Iron	**43000**		100	44	ug/L		05/03/11 17:39	05/06/11 01:50	1
Lead	**1.7**		1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:50	1
Magnesium	**320000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:50	1
Manganese	**48000**		50	20	ug/L		05/03/11 17:39	05/06/11 10:49	10
Mercury	**1.6**		0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:50	1
Nickel	**130**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:50	1
Potassium	**3800**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:50	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:50	1
Silver	**2.1**		1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:50	1
Sodium	**280000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:50	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:50	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:50	1
Zinc	**110**		20	8.4	ug/L		05/03/11 17:39	05/06/11 01:50	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100000		50000	9000	ug/L			05/17/11 11:37	50
Nitrogen, Kjeldahl	750		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	18	J	50	10	ug/L			04/29/11 17:49	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:49	1
Sulfate	520000		100000	50000	ug/L			05/17/11 14:10	20
Total Organic Carbon	2400		1000	500	ug/L			05/17/11 15:38	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 18:47	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 18:47	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 18:47	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 18:47	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 18:47	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 18:47	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 18:47	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 18:47	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 18:47	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 18:47	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 18:47	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 18:47	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 18:47	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 18:47	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 18:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 18:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 18:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 18:47	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 18:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 18:47	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 18:47	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 18:47	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 18:47	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 18:47	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 18:47	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 18:47	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 18:47	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 18:47	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 18:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 18:47	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 18:47	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 18:47	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 18:47	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 18:47	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 18:47	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 18:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 18:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 18:47	1

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 18:47	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 18:47	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 18:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 18:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 18:47	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 18:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 18:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 18:47	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 18:47	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 18:47	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 18:47	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 18:47	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 18:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 18:47*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 18:47*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/04/11 18:47*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 18:47*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/18/11 18:13	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/18/11 18:13	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 18:13	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,4-Dichlorobenzene	**0.17**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dichlorophenol	0.95	U *	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 18:13	1
3,3'-Dimethylbenzidine	19	U *	19	4.8	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dimethylphenol	1.9	U *	1.9	0.66	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/18/11 18:13	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/18/11 18:13	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 18:13	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorophene	480	U *	480	24	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/18/11 18:13	1
3 & 4 Methylphenol	1.9	U *	1.9	0.63	ug/L		05/03/11 14:47	05/18/11 18:13	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 18:13	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 18:13	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/18/11 18:13	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 18:13	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*20*	*T A J*	*ug/L*		*4.29*		*05/03/11 14:47*	*05/18/11 18:13*	*1*
Unknown	*2.0*	*T J*	*ug/L*		*5.33*		*05/03/11 14:47*	*05/18/11 18:13*	*1*
Unknown	*0.95*	*T J*	*ug/L*		*8.96*		*05/03/11 14:47*	*05/18/11 18:13*	*1*

Client Sample ID: MW-7L

Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Organic Acid	1.1	T J	ug/L		12.48		05/03/11 14:47	05/18/11 18:13	1
Unknown	6.6	T J	ug/L		12.67		05/03/11 14:47	05/18/11 18:13	1
Unknown Organic Acid	0.76	T J	ug/L		13.36		05/03/11 14:47	05/18/11 18:13	1
Unknown Organic Acid	0.80	T J	ug/L		13.90		05/03/11 14:47	05/18/11 18:13	1
Phosphine oxide, triphenyl-	2.7	T J N	ug/L		14.33	791-28-6	05/03/11 14:47	05/18/11 18:13	1
Unknown	1.1	T J	ug/L		14.36		05/03/11 14:47	05/18/11 18:13	1
Unknown	0.60	T J	ug/L		18.16		05/03/11 14:47	05/18/11 18:13	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		34 - 130	05/03/11 14:47	05/18/11 18:13	1
2-Fluorophenol	58		25 - 130	05/03/11 14:47	05/18/11 18:13	1
Nitrobenzene-d5	65		32 - 130	05/03/11 14:47	05/18/11 18:13	1
Phenol-d5	59		27 - 130	05/03/11 14:47	05/18/11 18:13	1
Terphenyl-d14	59		36 - 130	05/03/11 14:47	05/18/11 18:13	1
2,4,6-Tribromophenol	70		30 - 130	05/03/11 14:47	05/18/11 18:13	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 01:06	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 23:35	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 23:35	1
Methanol	**2200**		1000	830	ug/L			05/12/11 23:35	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3400**		100	50	ug/L		05/03/11 17:39	05/06/11 00:47	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:47	1
Arsenic	**1.5**	**J**	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:47	1
Barium	**160**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:47	1
Beryllium	**0.73**		0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:47	1
Cadmium	**0.16**	**J**	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:47	1
Calcium	**94000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:47	1
Chromium	**13**		5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:47	1
Cobalt	**6.1**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 00:47	1
Copper	**5.6**		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:47	1
Iron	**7900**		100	44	ug/L		05/03/11 17:39	05/06/11 00:47	1
Lead	**2.5**		1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:47	1
Magnesium	**7800**		250	100	ug/L		05/03/11 17:39	05/06/11 00:47	1
Manganese	**810**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:47	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:47	1
Nickel	**8.7**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:47	1
Potassium	**5600**		1000	330	ug/L		05/03/11 17:39	05/06/11 00:47	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:47	1
Silver	**0.49**	**J**	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:47	1
Sodium	**20000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:47	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:47	1
Vanadium	**11**		10	3.2	ug/L		05/03/11 17:39	05/06/11 00:47	1
Zinc	**14**	**J**	20	8.4	ug/L		05/03/11 17:39	05/06/11 00:47	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55000**		1000	180	ug/L			05/17/11 10:56	1
Nitrogen, Kjeldahl	**250**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:53	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:53	1
Sulfate	**32000**		10000	5000	ug/L			05/17/11 13:51	2
Total Organic Carbon	**690**	**J**	1000	500	ug/L			05/17/11 16:35	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Trip Blank 3
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 13:59	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 13:59	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 13:59	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 13:59	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 13:59	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 13:59	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 13:59	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 13:59	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 13:59	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 13:59	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 13:59	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 13:59	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 13:59	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:59	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 13:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 13:59	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 13:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:59	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 13:59	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 13:59	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 13:59	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 13:59	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 13:59	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 13:59	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 13:59	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 13:59	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 13:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 13:59	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 13:59	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 13:59	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 13:59	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 13:59	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 13:59	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 13:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 13:59	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Trip Blank 3
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:59	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 13:59	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 13:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 13:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 13:59	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 13:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 13:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 13:59	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 13:59	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 13:59	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 13:59	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 13:59	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 13:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 13:59*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 13:59*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/04/11 13:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 13:59*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB	DBFM	TOL						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
680-67794-1	LF-5	92	101	103						
680-67794-1 MS	LF-5	90	91	94						
680-67794-1 MSD	LF-5	98	101	101						
680-67794-2	LF-4	92	104	104						
680-67794-3	LF-1	96	103	103						
680-67794-4	LF-2	93	103	102						
680-67794-5 - DL	LF-3	97	97	105						
680-67794-5	LF-3	94	102	102						
680-67794-6	WWL-2	95	101	104						
680-67794-7	WWL-1	95	96	103						
680-67794-8	Trip Blank 2	94	103	102						
680-67794-9	Equipment Blank	94	105	102						
680-67794-10	WWL-3L	95	101	105						
680-67794-11	WWL-3U	99	96	105						
680-67794-11 - RA	WWL-3U	100	97	107						
680-67837-1	RAB-MW2	93	100	102						
680-67837-1 - DL	RAB-MW2	95	97	103						
680-67837-2	RAB-MW4	95	103	102						
680-67837-3	Field Dup	97	99	98						
680-67837-3 - DL	Field Dup	96	98	102						
680-67837-4	NAT-3	97	100	101						
680-67837-4 - DL	NAT-3	95	101	103						
680-67837-5	NAT-2	97	104	101						
680-67837-5 - DL	NAT-2	97	100	100						
680-67837-6	NAT-1	96	106	103						
680-67837-7	RAB-MW3	95	103	102						
680-67837-7 - DL	RAB-MW3	98	104	105						
680-67837-8	MW-10	96	101	102						
680-67837-9	Field Blank	96	103	100						
680-67837-10	MW-7U	95	102	103						
680-67837-11	MW-7L	96	101	102						
680-67837-12	Trip Blank 3	96	101	102						
LCS 680-201744/4	LCS 680-201744/4	100	103	102						
LCS 680-201921/6	LCS 680-201921/6	99	106	103						
LCS 680-201923/11	LCS 680-201923/11	99	98	102						
LCS 680-201948/10	LCS 680-201948/10	100	98	103						
LCS 680-202067/8	LCS 680-202067/8	99	101	104						
LCS 680-202151/6	LCS 680-202151/6	95	96	98						
LCS 680-203845/12	LCS 680-203845/12	112	100	110						
LCSD 680-201744/14	LCSD 680-201744/14	100	101	102						
LCSD 680-201921/7	LCSD 680-201921/7	99	99	101						
LCSD 680-201923/15	LCSD 680-201923/15	99	97	101						
LCSD 680-201948/11	LCSD 680-201948/11	104	100	105						
LCSD 680-202067/9	LCSD 680-202067/9	101	101	104						
LCSD 680-202151/8	LCSD 680-202151/8	98	96	101						
LCSD 680-203845/13	LCSD 680-203845/13	105	98	107						
MB 680-201744/17	MB 680-201744/17	97	103	104						
MB 680-201921/9	MB 680-201921/9	96	104	101						
MB 680-201923/12	MB 680-201923/12	97	104	101						
MB 680-201948/13	MB 680-201948/13	95	104	100						
MB 680-202067/11	MB 680-202067/11	95	103	102						

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB	DBFM	TOL						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
MB 680-202151/7	MB 680-202151/7	95	101	100						
MB 680-203845/15	MB 680-203845/15	98	99	104						

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	NBZ	PHL	TPH	TBP		
Lab Sample ID	Client Sample ID	(34-130)	(25-130)	(32-130)	(27-130)	(36-130)	(30-130)		
680-67794-1	LF-5	52	47	55	44	62	64		
680-67794-1 MS	LF-5	50	47	54	42	54	63		
680-67794-1 MS	LF-5	41	41	46	37	59	51		
680-67794-1 MSD	LF-5	54	51	56	48	55	64		
680-67794-1 MSD	LF-5	46	45	48	40	61	61		
680-67794-2	LF-4	63	55	61	54	76	73		
680-67794-3	LF-1	74	63	72	60	79	81		
680-67794-5	LF-3	71	56	69	64	71	75		
680-67794-9	Equipment Blank	70	60	70	57	79	73		
680-67794-10	WWL-3L	74	68	71	65	69	82		
680-67794-11	WWL-3U	66	62	65	57	66	77		
680-67837-3	Field Dup	62	56	68	62	55	71		
680-67837-4	NAT-3	51	48	54	53	54	74		
680-67837-5	NAT-2	51	53	56	54	60	77		
680-67837-8	MW-10	63	55	65	54	70	74		
680-67837-9	Field Blank	72	66	72	68	78	71		
680-67837-10	MW-7U	57	50	55	52	69	71		
680-67837-11	MW-7L	64	58	65	59	59	70		
LCS 680-201675/19-A	LCS 680-201675/19-A	66	61	64	54	70	72		
LCS 680-201675/22-A	LCS 680-201675/22-A	58	54	57	55	66	75		
LCS 680-201990/3-A	LCS 680-201990/3-A	73	71	77	73	79	84		
LCS 680-201990/5-A	LCS 680-201990/5-A	63	62	62	63	72	81		
LCSD 680-201990/4-A	LCSD 680-201990/4-A	70	66	71	69	74	78		
MB 680-201675/18-A	MB 680-201675/18-A	61	56	64	52	69	67		
MB 680-201990/2-A	MB 680-201990/2-A	69	61	72	64	80	60		

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-201744/17
Matrix: Water
Analysis Batch: 201744

Client Sample ID: MB 680-201744/17
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 19:15	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 19:15	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 19:15	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 19:15	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 19:15	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 19:15	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 19:15	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 19:15	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 19:15	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 19:15	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 19:15	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 19:15	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 19:15	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:15	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 19:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 19:15	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 19:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:15	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 19:15	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 19:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 19:15	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 19:15	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 19:15	1
Isobutyl alcohol	40	U	40	11	ug/L			05/02/11 19:15	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 19:15	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 19:15	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 19:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 19:15	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 19:15	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 19:15	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 19:15	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 19:15	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 19:15	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 19:15	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 19:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 19:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201744/17
Matrix: Water
Analysis Batch: 201744

Client Sample ID: MB 680-201744/17
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:15	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 19:15	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 19:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 19:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 19:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 19:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 19:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 19:15	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 19:15	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 19:15	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 19:15	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 19:15	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 19:15	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 19:15*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/02/11 19:15*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/02/11 19:15*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/02/11 19:15*	*1*

Lab Sample ID: LCS 680-201744/4
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCS 680-201744/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	108		ug/L		108	26 - 180
Benzene	50.0	51.1		ug/L		102	70 - 130
Bromodichloromethane	50.0	52.5		ug/L		105	70 - 130
Bromoform	50.0	44.9		ug/L		90	70 - 130
Bromomethane	50.0	45.6		ug/L		91	23 - 165
2-Butanone	100	97.7		ug/L		98	49 - 172
Carbon disulfide	50.0	47.7		ug/L		95	54 - 132
Carbon tetrachloride	50.0	54.2		ug/L		108	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	70 - 130
Chloroethane	50.0	41.8		ug/L		84	56 - 152
Chloroform	50.0	51.6		ug/L		103	70 - 130
Chloromethane	50.0	46.5		ug/L		93	70 - 130
cis-1,2-Dichloroethene	50.0	52.0		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	53.4		ug/L		107	70 - 130
Dibromochloromethane	50.0	54.3		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.6		ug/L		107	70 - 130
1,2-Dibromoethane	50.0	52.1		ug/L		104	70 - 130
Dibromomethane	50.0	50.5		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	46.2		ug/L		92	44 - 146
1,1-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	49.8		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201744/4
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCS 680-201744/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1-Dichloroethene	50.0	50.6		ug/L		101	66 - 131
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
Diethyl ether	50.0	50.4		ug/L		101	10 - 200
Ethylbenzene	50.0	51.9		ug/L		104	70 - 130
2-Hexanone	100	103		ug/L		103	42 - 185
Methylene Chloride	50.0	49.0		ug/L		98	67 - 130
4-Methyl-2-pentanone (MIBK)	100	99.8		ug/L		100	70 - 130
Methyl tert-butyl ether	100	105		ug/L		105	64 - 131
Styrene	50.0	52.9		ug/L		106	70 - 130
t-Butanol	50.0	57.7		ug/L		115	20 - 195
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.9		ug/L		104	70 - 130
Tetrachloroethene	50.0	49.8		ug/L		100	70 - 130
Toluene	50.0	50.8		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	70 - 130
1,2,3-Trichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	70 - 130
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	70 - 130
Trichloroethylene	50.0	51.2		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	45.9		ug/L		92	55 - 156
1,2,3-Trichloropropane	50.0	50.5		ug/L		101	70 - 130
Vinyl acetate	100	157		ug/L		157	60 - 176
Vinyl chloride	50.0	53.1		ug/L		106	67 - 134
Xylenes, Total	150	156		ug/L		104	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-201744/14
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCSD 680-201744/14
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	105		ug/L		105	26 - 180	3	50
Benzene	50.0	51.4		ug/L		103	70 - 130	1	30
Bromodichloromethane	50.0	52.8		ug/L		106	70 - 130	1	30
Bromoform	50.0	44.9		ug/L		90	70 - 130	0	30
Bromomethane	50.0	49.6		ug/L		99	23 - 165	8	50
2-Butanone	100	99.8		ug/L		100	49 - 172	2	30
Carbon disulfide	50.0	46.5		ug/L		93	54 - 132	3	30
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130	1	30
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130	1	30
Chloroethane	50.0	41.5		ug/L		83	56 - 152	1	40
Chloroform	50.0	50.9		ug/L		102	70 - 130	1	30
Chloromethane	50.0	45.6		ug/L		91	70 - 130	2	30
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201744/14
Matrix: Water
Analysis Batch: 201744

Client Sample ID: LCSD 680-201744/14
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	54.6		ug/L		109	70 - 130	2	30
Dibromochloromethane			50.0	54.7		ug/L		109	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	53.5		ug/L		107	70 - 130	0	50
1,2-Dibromoethane			50.0	53.1		ug/L		106	70 - 130	2	30
Dibromomethane			50.0	51.3		ug/L		103	70 - 130	1	30
Dichlorodifluoromethane			50.0	44.7		ug/L		89	44 - 146	3	50
1,1-Dichloroethane			50.0	51.0		ug/L		102	70 - 130	2	30
1,2-Dichloroethane			50.0	49.8		ug/L		100	70 - 130	0	30
1,1-Dichloroethene			50.0	48.2		ug/L		96	66 - 131	5	30
1,2-Dichloropropane			50.0	50.6		ug/L		101	70 - 130	0	30
Diethyl ether			50.0	49.3		ug/L		99	10 - 200	2	50
Ethylbenzene			50.0	51.8		ug/L		104	70 - 130	0	30
2-Hexanone			100	105		ug/L		105	42 - 185	2	30
Methylene Chloride			50.0	49.5		ug/L		99	67 - 130	1	30
4-Methyl-2-pentanone (MIBK)			100	102		ug/L		102	70 - 130	2	30
Methyl tert-butyl ether			100	104		ug/L		104	64 - 131	0	30
Styrene			50.0	52.7		ug/L		105	70 - 130	0	30
t-Butanol			50.0	57.6		ug/L		115	20 - 195	0	50
1,1,1,2-Tetrachloroethane			50.0	54.6		ug/L		109	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	51.6		ug/L		103	70 - 130	1	30
Tetrachloroethene			50.0	49.1		ug/L		98	70 - 130	2	30
Toluene			50.0	51.4		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.6		ug/L		101	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	55.7		ug/L		111	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	51.6		ug/L		103	70 - 130	1	30
1,1,1-Trichloroethane			50.0	52.2		ug/L		104	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.7		ug/L		103	70 - 130	2	30
Trichloroethylene			50.0	51.3		ug/L		103	70 - 130	0	30
Trichlorofluoromethane			50.0	43.5		ug/L		87	55 - 156	5	30
1,2,3-Trichloropropane			50.0	50.7		ug/L		101	70 - 130	1	30
Vinyl acetate			100	156		ug/L		156	60 - 176	1	30
Vinyl chloride			50.0	51.0		ug/L		102	67 - 134	4	30
Xylenes, Total			150	156		ug/L		104	70 - 130	0	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-201921/9
Matrix: Water
Analysis Batch: 201921

Client Sample ID: MB 680-201921/9
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 12:02	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 12:02	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 12:02	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 12:02	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 12:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201921/9
Matrix: Water
Analysis Batch: 201921

Client Sample ID: MB 680-201921/9
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 12:02	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 12:02	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 12:02	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 12:02	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 12:02	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 12:02	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 12:02	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 12:02	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 12:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 12:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 12:02	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 12:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 12:02	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 12:02	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 12:02	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 12:02	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 12:02	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 12:02	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 12:02	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 12:02	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 12:02	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 12:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 12:02	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 12:02	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 12:02	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 12:02	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 12:02	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 12:02	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 12:02	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 12:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 12:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 12:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 12:02	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 12:02	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 12:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 12:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 12:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 12:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201921/9
Matrix: Water
Analysis Batch: 201921

Client Sample ID: MB 680-201921/9
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 12:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 12:02	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 12:02	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 12:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 12:02	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 12:02	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 12:02	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 12:02	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 12:02*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/03/11 12:02*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 12:02*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/03/11 12:02*	*1*

Lab Sample ID: LCS 680-201921/6
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCS 680-201921/6
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	103		ug/L		103	26 - 180
Benzene	50.0	51.8		ug/L		104	70 - 130
Bromodichloromethane	50.0	52.9		ug/L		106	70 - 130
Bromoform	50.0	44.4		ug/L		89	70 - 130
Bromomethane	50.0	48.5		ug/L		97	23 - 165
2-Butanone	100	98.6		ug/L		99	49 - 172
Carbon disulfide	50.0	49.4		ug/L		99	54 - 132
Carbon tetrachloride	50.0	54.0		ug/L		108	70 - 130
Chlorobenzene	50.0	49.7		ug/L		99	70 - 130
Chloroethane	50.0	44.8		ug/L		90	56 - 152
Chloroform	50.0	52.7		ug/L		105	70 - 130
Chloromethane	50.0	46.6		ug/L		93	70 - 130
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130
Dibromochloromethane	50.0	53.8		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.8		ug/L		104	70 - 130
1,2-Dibromoethane	50.0	52.1		ug/L		104	70 - 130
Dibromomethane	50.0	51.1		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	46.8		ug/L		94	44 - 146
1,1-Dichloroethane	50.0	52.9		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	50.3		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	50.5		ug/L		101	66 - 131
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130
Diethyl ether	50.0	49.6		ug/L		99	10 - 200
Ethylbenzene	50.0	51.5		ug/L		103	70 - 130
2-Hexanone	100	102		ug/L		102	42 - 185
Methylene Chloride	50.0	51.6		ug/L		103	67 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201921/6
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCS 680-201921/6
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Methyl-2-pentanone (MIBK)	100	98.4		ug/L		98	70 - 130
Methyl tert-butyl ether	100	105		ug/L		105	64 - 131
Styrene	50.0	52.1		ug/L		104	70 - 130
t-Butanol	50.0	55.4		ug/L		111	20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 130
Tetrachloroethene	50.0	48.5		ug/L		97	70 - 130
Toluene	50.0	52.1		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130
1,2,3-Trichlorobenzene	50.0	49.7		ug/L		99	70 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
Trichloroethylene	50.0	51.0		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	47.2		ug/L		94	55 - 156
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	70 - 130
Vinyl acetate	100	159		ug/L		159	60 - 176
Vinyl chloride	50.0	53.8		ug/L		108	67 - 134
Xylenes, Total	150	154		ug/L		103	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-201921/7
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCSD 680-201921/7
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	89.5		ug/L		90	26 - 180	14	50
Benzene	50.0	51.6		ug/L		103	70 - 130	0	30
Bromodichloromethane	50.0	52.4		ug/L		105	70 - 130	1	30
Bromoform	50.0	44.2		ug/L		88	70 - 130	1	30
Bromomethane	50.0	48.5		ug/L		97	23 - 165	0	50
2-Butanone	100	94.8		ug/L		95	49 - 172	4	30
Carbon disulfide	50.0	46.9		ug/L		94	54 - 132	5	30
Carbon tetrachloride	50.0	53.9		ug/L		108	70 - 130	0	30
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130	3	30
Chloroethane	50.0	41.6		ug/L		83	56 - 152	8	40
Chloroform	50.0	49.5		ug/L		99	70 - 130	6	30
Chloromethane	50.0	47.8		ug/L		96	70 - 130	3	30
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130	6	30
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130	0	30
Dibromochloromethane	50.0	53.4		ug/L		107	70 - 130	1	50
1,2-Dibromo-3-Chloropropane	50.0	51.4		ug/L		103	70 - 130	1	50
1,2-Dibromoethane	50.0	51.7		ug/L		103	70 - 130	1	30
Dibromomethane	50.0	50.0		ug/L		100	70 - 130	2	30
Dichlorodifluoromethane	50.0	49.7		ug/L		99	44 - 146	6	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201921/7
Matrix: Water
Analysis Batch: 201921

Client Sample ID: LCSD 680-201921/7
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			50.0	50.3		ug/L		101	70 - 130	5	30
1,2-Dichloroethane			50.0	49.3		ug/L		99	70 - 130	2	30
1,1-Dichloroethene			50.0	48.8		ug/L		98	66 - 131	3	30
1,2-Dichloropropane			50.0	50.4		ug/L		101	70 - 130	2	30
Diethyl ether			50.0	47.3		ug/L		95	10 - 200	5	50
Ethylbenzene			50.0	51.1		ug/L		102	70 - 130	1	30
2-Hexanone			100	102		ug/L		102	42 - 185	0	30
Methylene Chloride			50.0	47.0		ug/L		94	67 - 130	9	30
4-Methyl-2-pentanone (MIBK)			100	99.2		ug/L		99	70 - 130	1	30
Methyl tert-butyl ether			100	101		ug/L		101	64 - 131	4	30
Styrene			50.0	52.1		ug/L		104	70 - 130	0	30
t-Butanol			50.0	56.6		ug/L		113	20 - 195	2	50
1,1,1,2-Tetrachloroethane			50.0	52.7		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	50.3		ug/L		101	70 - 130	1	30
Tetrachloroethene			50.0	48.7		ug/L		97	70 - 130	0	30
Toluene			50.0	51.6		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.0		ug/L		100	70 - 130	6	30
trans-1,3-Dichloropropene			50.0	54.8		ug/L		110	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	48.9		ug/L		98	70 - 130	1	30
1,1,1-Trichloroethane			50.0	52.7		ug/L		105	70 - 130	1	30
1,1,2-Trichloroethane			50.0	50.2		ug/L		100	70 - 130	2	30
Trichloroethylene			50.0	50.6		ug/L		101	70 - 130	1	30
Trichlorofluoromethane			50.0	47.8		ug/L		96	55 - 156	1	30
1,2,3-Trichloropropane			50.0	48.7		ug/L		97	70 - 130	2	30
Vinyl acetate			100	159		ug/L		159	60 - 176	0	30
Vinyl chloride			50.0	52.0		ug/L		104	67 - 134	3	30
Xylenes, Total			150	153		ug/L		102	70 - 130	0	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-201923/12
Matrix: Water
Analysis Batch: 201923

Client Sample ID: MB 680-201923/12
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 23:19	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 23:19	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 23:19	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 23:19	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 23:19	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 23:19	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 23:19	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 23:19	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 23:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201923/12
Matrix: Water
Analysis Batch: 201923

Client Sample ID: MB 680-201923/12
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 23:19	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 23:19	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 23:19	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 23:19	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 23:19	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 23:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 23:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 23:19	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 23:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 23:19	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 23:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 23:19	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 23:19	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 23:19	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 23:19	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 23:19	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 23:19	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 23:19	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 23:19	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 23:19	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 23:19	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 23:19	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 23:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 23:19	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 23:19	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 23:19	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 23:19	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 23:19	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 23:19	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 23:19	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 23:19	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 23:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 23:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 23:19	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 23:19	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 23:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 23:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 23:19	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 23:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 23:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 23:19	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 23:19	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 23:19	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 23:19	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 23:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201923/12
Matrix: Water
Analysis Batch: 201923

Client Sample ID: MB 680-201923/12
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 23:19	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 23:19	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 23:19*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/03/11 23:19*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 23:19*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/03/11 23:19*	*1*

Lab Sample ID: LCS 680-201923/11
Matrix: Water
Analysis Batch: 201923

Client Sample ID: LCS 680-201923/11
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	103		ug/L		103	26 - 180
Benzene	50.0	51.7		ug/L		103	70 - 130
Bromodichloromethane	50.0	52.4		ug/L		105	70 - 130
Bromoform	50.0	43.7		ug/L		87	70 - 130
Bromomethane	50.0	41.8		ug/L		84	23 - 165
2-Butanone	100	99.4		ug/L		99	49 - 172
Carbon disulfide	50.0	43.8		ug/L		88	54 - 132
Carbon tetrachloride	50.0	53.4		ug/L		107	70 - 130
Chlorobenzene	50.0	49.2		ug/L		98	70 - 130
Chloroethane	50.0	37.2		ug/L		74	56 - 152
Chloroform	50.0	49.4		ug/L		99	70 - 130
Chloromethane	50.0	43.2		ug/L		86	70 - 130
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130
Dibromochloromethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	70 - 130
1,2-Dibromoethane	50.0	51.6		ug/L		103	70 - 130
Dibromomethane	50.0	50.2		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	42.6		ug/L		85	44 - 146
1,1-Dichloroethane	50.0	50.0		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	49.5		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	46.1		ug/L		92	66 - 131
1,2-Dichloropropane	50.0	50.6		ug/L		101	70 - 130
Ethylbenzene	50.0	51.6		ug/L		103	70 - 130
2-Hexanone	100	108		ug/L		108	42 - 185
Methylene Chloride	50.0	45.7		ug/L		91	67 - 130
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	70 - 130
Methyl tert-butyl ether	100	103		ug/L		103	64 - 131
Styrene	50.0	52.2		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.0		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/L		99	70 - 130
Tetrachloroethene	50.0	48.3		ug/L		97	70 - 130
Toluene	50.0	50.7		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201923/11
Matrix: Water
Analysis Batch: 201923

Client Sample ID: LCS 680-201923/11
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	70 - 130
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	70 - 130
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
Trichloroethylene	50.0	50.3		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	41.7		ug/L		83	55 - 156
1,2,3-Trichloropropane	50.0	48.9		ug/L		98	70 - 130
Vinyl acetate	100	155		ug/L		155	60 - 176
Vinyl chloride	50.0	48.4		ug/L		97	67 - 134
Xylenes, Total	150	154		ug/L		103	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-201923/15
Matrix: Water
Analysis Batch: 201923

Client Sample ID: LCSD 680-201923/15
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	132		ug/L		132	26 - 180	25	50
Benzene	50.0	51.1		ug/L		102	70 - 130	1	30
Bromodichloromethane	50.0	51.9		ug/L		104	70 - 130	1	30
Bromoform	50.0	44.0		ug/L		88	70 - 130	1	30
Bromomethane	50.0	43.2		ug/L		86	23 - 165	3	50
2-Butanone	100	103		ug/L		103	49 - 172	4	30
Carbon disulfide	50.0	44.5		ug/L		89	54 - 132	2	30
Carbon tetrachloride	50.0	52.0		ug/L		104	70 - 130	3	30
Chlorobenzene	50.0	49.9		ug/L		100	70 - 130	2	30
Chloroethane	50.0	45.2		ug/L		90	56 - 152	19	40
Chloroform	50.0	49.7		ug/L		99	70 - 130	1	30
Chloromethane	50.0	44.4		ug/L		89	70 - 130	3	30
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	70 - 130	7	30
Dibromochloromethane	50.0	55.2		ug/L		110	70 - 130	3	50
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	70 - 130	5	50
1,2-Dibromoethane	50.0	50.5		ug/L		101	70 - 130	2	30
Dibromomethane	50.0	50.5		ug/L		101	70 - 130	1	30
Dichlorodifluoromethane	50.0	38.5		ug/L		77	44 - 146	10	50
1,1-Dichloroethane	50.0	49.9		ug/L		100	70 - 130	0	30
1,2-Dichloroethane	50.0	49.2		ug/L		98	70 - 130	1	30
1,1-Dichloroethene	50.0	47.4		ug/L		95	66 - 131	3	30
1,2-Dichloropropane	50.0	51.1		ug/L		102	70 - 130	1	30
Ethylbenzene	50.0	51.7		ug/L		103	70 - 130	0	30
2-Hexanone	100	110		ug/L		110	42 - 185	1	30
Methylene Chloride	50.0	47.4		ug/L		95	67 - 130	4	30
4-Methyl-2-pentanone (MIBK)	100	97.2		ug/L		97	70 - 130	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201923/15
Matrix: Water
Analysis Batch: 201923

Client Sample ID: LCSD 680-201923/15
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			100	97.2		ug/L		97	64 - 131	5	30
Styrene			50.0	53.1		ug/L		106	70 - 130	2	30
1,1,1,2-Tetrachloroethane			50.0	53.9		ug/L		108	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	50.1		ug/L		100	70 - 130	2	30
Tetrachloroethene			50.0	48.4		ug/L		97	70 - 130	0	30
Toluene			50.0	51.2		ug/L		102	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.7		ug/L		101	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	70 - 130	7	50
1,2,3-Trichlorobenzene			50.0	46.2		ug/L		92	70 - 130	5	30
1,1,1-Trichloroethane			50.0	51.0		ug/L		102	70 - 130	2	30
1,1,2-Trichloroethane			50.0	50.8		ug/L		102	70 - 130	1	30
Trichloroethylene			50.0	50.4		ug/L		101	70 - 130	0	30
Trichlorofluoromethane			50.0	45.7		ug/L		91	55 - 156	9	30
1,2,3-Trichloropropane			50.0	50.4		ug/L		101	70 - 130	3	30
Vinyl acetate			100	128		ug/L		128	60 - 176	19	30
Vinyl chloride			50.0	50.2		ug/L		100	67 - 134	4	30
Xylenes, Total			150	155		ug/L		103	70 - 130	1	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-201948/13
Matrix: Water
Analysis Batch: 201948

Client Sample ID: MB 680-201948/13
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 12:43	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 12:43	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 12:43	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 12:43	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 12:43	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 12:43	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 12:43	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 12:43	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 12:43	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 12:43	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 12:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 12:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 12:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201948/13
Matrix: Water
Analysis Batch: 201948

Client Sample ID: MB 680-201948/13
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 12:43	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 12:43	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 12:43	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 12:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 12:43	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 12:43	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 12:43	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 12:43	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 12:43	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 12:43	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 12:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 12:43	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 12:43	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 12:43	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 12:43	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 12:43	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 12:43	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 12:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 12:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 12:43	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 12:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 12:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 12:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 12:43	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 12:43	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 12:43	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 12:43	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 12:43	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 12:43	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 12:43*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/04/11 12:43*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/04/11 12:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201948/13
Matrix: Water
Analysis Batch: 201948

Client Sample ID: MB 680-201948/13
Prep Type: Total/NA

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		05/04/11 12:43	1

Lab Sample ID: LCS 680-201948/10
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LCS 680-201948/10
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	92.9		ug/L		93	26 - 180
Benzene	50.0	52.4		ug/L		105	70 - 130
Bromodichloromethane	50.0	54.1		ug/L		108	70 - 130
Bromoform	50.0	43.5		ug/L		87	70 - 130
Bromomethane	50.0	45.2		ug/L		90	23 - 165
2-Butanone	100	96.1		ug/L		96	49 - 172
Carbon disulfide	50.0	43.7		ug/L		87	54 - 132
Carbon tetrachloride	50.0	55.0		ug/L		110	70 - 130
Chlorobenzene	50.0	49.9		ug/L		100	70 - 130
Chloroethane	50.0	36.5		ug/L		73	56 - 152
Chloroform	50.0	49.7		ug/L		99	70 - 130
Chloromethane	50.0	44.4		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	70 - 130
Dibromochloromethane	50.0	54.4		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	70 - 130
1,2-Dibromoethane	50.0	52.7		ug/L		105	70 - 130
Dibromomethane	50.0	50.4		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	46.7		ug/L		93	44 - 146
1,1-Dichloroethane	50.0	49.3		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	50.9		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	46.5		ug/L		93	66 - 131
1,2-Dichloropropane	50.0	52.1		ug/L		104	70 - 130
Diethyl ether	50.0	44.8		ug/L		90	10 - 200
Ethylbenzene	50.0	52.0		ug/L		104	70 - 130
2-Hexanone	100	103		ug/L		103	42 - 185
Methylene Chloride	50.0	45.0		ug/L		90	67 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	70 - 130
Methyl tert-butyl ether	100	101		ug/L		101	64 - 131
Styrene	50.0	52.9		ug/L		106	70 - 130
t-Butanol	50.0	50.8		ug/L		102	20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	70 - 130
Tetrachloroethene	50.0	48.9		ug/L		98	70 - 130
Toluene	50.0	52.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	56.2		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	70 - 130
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	70 - 130
Trichloroethylene	50.0	51.6		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	40.5		ug/L		81	55 - 156

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201948/10
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LCS 680-201948/10
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2,3-Trichloropropane	50.0	50.0		ug/L		100	70 - 130
Vinyl acetate	100	154		ug/L		154	60 - 176
Vinyl chloride	50.0	49.3		ug/L		99	67 - 134
Xylenes, Total	150	155		ug/L		103	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-201948/11
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LCSD 680-201948/11
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	100		ug/L		100	26 - 180	7	50
Benzene	50.0	53.1		ug/L		106	70 - 130	1	30
Bromodichloromethane	50.0	54.4		ug/L		109	70 - 130	0	30
Bromoform	50.0	45.4		ug/L		91	70 - 130	4	30
Bromomethane	50.0	55.2		ug/L		110	23 - 165	20	50
2-Butanone	100	96.9		ug/L		97	49 - 172	1	30
Carbon disulfide	50.0	45.4		ug/L		91	54 - 132	4	30
Carbon tetrachloride	50.0	55.1		ug/L		110	70 - 130	0	30
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130	2	30
Chloroethane	50.0	40.6		ug/L		81	56 - 152	11	40
Chloroform	50.0	50.5		ug/L		101	70 - 130	2	30
Chloromethane	50.0	44.9		ug/L		90	70 - 130	1	30
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	70 - 130	0	30
Dibromochloromethane	50.0	55.0		ug/L		110	70 - 130	1	50
1,2-Dibromo-3-Chloropropane	50.0	55.7		ug/L		111	70 - 130	10	50
1,2-Dibromoethane	50.0	54.1		ug/L		108	70 - 130	3	30
Dibromomethane	50.0	51.7		ug/L		103	70 - 130	3	30
Dichlorodifluoromethane	50.0	48.0		ug/L		96	44 - 146	3	50
1,1-Dichloroethane	50.0	49.9		ug/L		100	70 - 130	1	30
1,2-Dichloroethane	50.0	51.4		ug/L		103	70 - 130	1	30
1,1-Dichloroethene	50.0	46.8		ug/L		94	66 - 131	0	30
1,2-Dichloropropane	50.0	52.6		ug/L		105	70 - 130	1	30
Diethyl ether	50.0	45.3		ug/L		91	10 - 200	1	50
Ethylbenzene	50.0	52.8		ug/L		106	70 - 130	1	30
2-Hexanone	100	109		ug/L		109	42 - 185	6	30
Methylene Chloride	50.0	46.7		ug/L		93	67 - 130	4	30
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	70 - 130	5	30
Methyl tert-butyl ether	100	102		ug/L		102	64 - 131	1	30
Styrene	50.0	55.1		ug/L		110	70 - 130	4	30
t-Butanol	50.0	56.5		ug/L		113	20 - 195	11	50
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/L		109	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	70 - 130	5	30
Tetrachloroethene	50.0	49.9		ug/L		100	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201948/11
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LCSD 680-201948/11
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Toluene			50.0	52.8		ug/L		106	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	49.5		ug/L		99	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	56.9		ug/L		114	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	50.9		ug/L		102	70 - 130	5	30
1,1,1-Trichloroethane			50.0	53.8		ug/L		108	70 - 130	2	30
1,1,2-Trichloroethane			50.0	52.9		ug/L		106	70 - 130	3	30
Trichloroethylene			50.0	53.2		ug/L		106	70 - 130	3	30
Trichlorofluoromethane			50.0	42.3		ug/L		85	55 - 156	4	30
1,2,3-Trichloropropane			50.0	52.4		ug/L		105	70 - 130	5	30
Vinyl acetate			100	153		ug/L		153	60 - 176	1	30
Vinyl chloride			50.0	51.8		ug/L		104	67 - 134	5	30
Xylenes, Total			150	159		ug/L		106	70 - 130	2	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Acetone	25	U	100	92.0		ug/L		92	26 - 180		
Benzene	1.0	U	50.0	46.7		ug/L		93	70 - 130		
Bromodichloromethane	1.0	U	50.0	46.9		ug/L		94	70 - 130		
Bromoform	1.0	U	50.0	39.3		ug/L		79	70 - 130		
Bromomethane	1.0	U	50.0	46.9		ug/L		94	23 - 165		
2-Butanone	10	U	100	86.1		ug/L		86	49 - 172		
Carbon disulfide	2.0	U	50.0	44.4		ug/L		89	54 - 132		
Carbon tetrachloride	1.0	U	50.0	51.3		ug/L		103	70 - 130		
Chlorobenzene	1.0	U	50.0	44.7		ug/L		89	70 - 130		
Chloroethane	1.0	U	50.0	46.0		ug/L		92	56 - 152		
Chloroform	1.0	U	50.0	46.9		ug/L		94	70 - 130		
Chloromethane	1.0	U	50.0	45.3		ug/L		91	70 - 130		
cis-1,2-Dichloroethene	1.0	U	50.0	47.1		ug/L		94	70 - 130		
cis-1,3-Dichloropropene	1.0	U	50.0	47.1		ug/L		94	70 - 130		
Dibromochloromethane	1.0	U	50.0	48.0		ug/L		96	70 - 130		
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	44.9		ug/L		90	70 - 130		
1,2-Dibromoethane	1.0	U	50.0	44.4		ug/L		89	70 - 130		
Dibromomethane	1.0	U	50.0	43.9		ug/L		88	70 - 130		
Dichlorodifluoromethane	1.0	U	50.0	45.6		ug/L		91	44 - 146		
1,1-Dichloroethane	0.30	J	50.0	47.9		ug/L		95	70 - 130		
1,2-Dichloroethane	1.0	U	50.0	43.9		ug/L		88	70 - 130		
1,1-Dichloroethene	0.12	J	50.0	47.7		ug/L		95	66 - 131		
1,2-Dichloropropane	1.0	U	50.0	45.8		ug/L		92	70 - 130		
Ethylbenzene	1.0	U	50.0	47.9		ug/L		96	70 - 130		
2-Hexanone	10	U	100	91.5		ug/L		92	42 - 185		
Methylene Chloride	5.0	U	50.0	44.1		ug/L		88	67 - 130		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Methyl-2-pentanone (MIBK)	10	U	100	88.3		ug/L		88	70 - 130
Methyl tert-butyl ether	10	U	100	90.1		ug/L		90	64 - 131
Styrene	1.0	U	50.0	47.9		ug/L		96	70 - 130
1,1,1,2-Tetrachloroethane	1.0	U	50.0	48.1		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	1.0	U	50.0	45.2		ug/L		90	70 - 130
Tetrachloroethene	1.0	U	50.0	45.1		ug/L		90	70 - 130
Toluene	1.0	U	50.0	46.5		ug/L		93	70 - 130
trans-1,2-Dichloroethene	1.0	U	50.0	48.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	1.0	U	50.0	48.0		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	1.0	U	50.0	42.8		ug/L		86	70 - 130
1,1,1-Trichloroethane	1.0	U	50.0	49.0		ug/L		98	70 - 130
1,1,2-Trichloroethane	1.0	U	50.0	44.1		ug/L		88	70 - 130
Trichloroethylene	1.0	U	50.0	46.5		ug/L		93	70 - 130
Trichlorofluoromethane	1.0	U	50.0	46.3		ug/L		93	55 - 156
1,2,3-Trichloropropane	1.0	U	50.0	44.2		ug/L		88	70 - 130
Vinyl acetate	2.0	U	100	103		ug/L		103	60 - 176
Vinyl chloride	1.0	U	50.0	48.8		ug/L		98	67 - 134
Xylenes, Total	2.0	U	150	143		ug/L		95	70 - 130

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*70 - 130*
Dibromofluoromethane	*91*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	25	U	100	91.1		ug/L		91	26 - 180	1	50
Benzene	1.0	U	50.0	50.9		ug/L		102	70 - 130	9	30
Bromodichloromethane	1.0	U	50.0	51.2		ug/L		102	70 - 130	9	30
Bromoform	1.0	U	50.0	42.9		ug/L		86	70 - 130	9	30
Bromomethane	1.0	U	50.0	65.7		ug/L		131	23 - 165	33	50
2-Butanone	10	U	100	95.5		ug/L		96	49 - 172	10	30
Carbon disulfide	2.0	U	50.0	48.9		ug/L		98	54 - 132	10	30
Carbon tetrachloride	1.0	U	50.0	55.9		ug/L		112	70 - 130	9	30
Chlorobenzene	1.0	U	50.0	49.4		ug/L		99	70 - 130	10	30
Chloroethane	1.0	U	50.0	49.4		ug/L		99	56 - 152	7	40
Chloroform	1.0	U	50.0	51.2		ug/L		102	70 - 130	9	30
Chloromethane	1.0	U	50.0	48.7		ug/L		97	70 - 130	7	30
cis-1,2-Dichloroethene	1.0	U	50.0	52.2		ug/L		104	70 - 130	10	30
cis-1,3-Dichloropropene	1.0	U	50.0	52.2		ug/L		104	70 - 130	10	30
Dibromochloromethane	1.0	U	50.0	52.2		ug/L		104	70 - 130	8	50
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	48.7		ug/L		97	70 - 130	8	50
1,2-Dibromoethane	1.0	U	50.0	49.1		ug/L		98	70 - 130	10	30
Dibromomethane	1.0	U	50.0	47.3		ug/L		95	70 - 130	7	30
Dichlorodifluoromethane	1.0	U	50.0	50.4		ug/L		101	44 - 146	10	50
1,1-Dichloroethane	0.30	J	50.0	52.2		ug/L		104	70 - 130	8	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 201948

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	1.0	U	50.0	47.1		ug/L		94	70 - 130	7	30
1,1-Dichloroethene	0.12	J	50.0	52.0		ug/L		104	66 - 131	9	30
1,2-Dichloropropane	1.0	U	50.0	49.5		ug/L		99	70 - 130	8	30
Ethylbenzene	1.0	U	50.0	52.1		ug/L		104	70 - 130	8	30
2-Hexanone	10	U	100	99.2		ug/L		99	42 - 185	8	30
Methylene Chloride	5.0	U	50.0	48.7		ug/L		97	67 - 130	10	30
4-Methyl-2-pentanone (MIBK)	10	U	100	94.8		ug/L		95	70 - 130	7	30
Methyl tert-butyl ether	10	U	100	99.1		ug/L		99	64 - 131	10	30
Styrene	1.0	U	50.0	52.9		ug/L		106	70 - 130	10	30
1,1,1,2-Tetrachloroethane	1.0	U	50.0	52.9		ug/L		106	70 - 130	10	30
1,1,2,2-Tetrachloroethane	1.0	U	50.0	49.3		ug/L		99	70 - 130	8	30
Tetrachloroethene	1.0	U	50.0	49.0		ug/L		98	70 - 130	8	30
Toluene	1.0	U	50.0	50.4		ug/L		101	70 - 130	8	30
trans-1,2-Dichloroethene	1.0	U	50.0	52.7		ug/L		105	70 - 130	9	30
trans-1,3-Dichloropropene	1.0	U	50.0	52.7		ug/L		105	70 - 130	9	50
1,2,3-Trichlorobenzene	1.0	U	50.0	47.8		ug/L		96	70 - 130	11	30
1,1,1-Trichloroethane	1.0	U	50.0	53.6		ug/L		107	70 - 130	9	30
1,1,2-Trichloroethane	1.0	U	50.0	47.5		ug/L		95	70 - 130	7	30
Trichloroethylene	1.0	U	50.0	50.4		ug/L		101	70 - 130	8	30
Trichlorofluoromethane	1.0	U	50.0	49.6		ug/L		99	55 - 156	7	30
1,2,3-Trichloropropane	1.0	U	50.0	47.9		ug/L		96	70 - 130	8	30
Vinyl acetate	2.0	U	100	114		ug/L		114	60 - 176	10	30
Vinyl chloride	1.0	U	50.0	55.0		ug/L		110	67 - 134	12	30
Xylenes, Total	2.0	U	150	157		ug/L		105	70 - 130	10	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-202067/11
Matrix: Water
Analysis Batch: 202067

Client Sample ID: MB 680-202067/11
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 12:59	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 12:59	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 12:59	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 12:59	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 12:59	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 12:59	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 12:59	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 12:59	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 12:59	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 12:59	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 12:59	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202067/11
Matrix: Water
Analysis Batch: 202067

Client Sample ID: MB 680-202067/11
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 12:59	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 12:59	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 12:59	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 12:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 12:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 12:59	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 12:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 12:59	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 12:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 12:59	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 12:59	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 12:59	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 12:59	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 12:59	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 12:59	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 12:59	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 12:59	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 12:59	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 12:59	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 12:59	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 12:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 12:59	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 12:59	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 12:59	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 12:59	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 12:59	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 12:59	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 12:59	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/05/11 12:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 12:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 12:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 12:59	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 12:59	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 12:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 12:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 12:59	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 12:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 12:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 12:59	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 12:59	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 12:59	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 12:59	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 12:59	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 12:59	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 12:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202067/11
Matrix: Water
Analysis Batch: 202067

Client Sample ID: MB 680-202067/11
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/05/11 12:59	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		05/05/11 12:59	1
Dibromofluoromethane	103		70 - 130		05/05/11 12:59	1
Toluene-d8 (Surr)	102		70 - 130		05/05/11 12:59	1

Lab Sample ID: LCS 680-202067/8
Matrix: Water
Analysis Batch: 202067

Client Sample ID: LCS 680-202067/8
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	113		ug/L		113	26 - 180
Benzene	50.0	51.8		ug/L		104	70 - 130
Bromodichloromethane	50.0	53.2		ug/L		106	70 - 130
Bromoform	50.0	43.8		ug/L		88	70 - 130
Bromomethane	50.0	48.2		ug/L		96	23 - 165
2-Butanone	100	96.3		ug/L		96	49 - 172
Carbon disulfide	50.0	47.2		ug/L		94	54 - 132
Carbon tetrachloride	50.0	54.6		ug/L		109	70 - 130
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130
Chloroethane	50.0	54.8		ug/L		110	56 - 152
Chloroform	50.0	50.5		ug/L		101	70 - 130
Chloromethane	50.0	43.3		ug/L		87	70 - 130
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	55.3		ug/L		111	70 - 130
Dibromochloromethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	70 - 130
1,2-Dibromoethane	50.0	52.9		ug/L		106	70 - 130
Dibromomethane	50.0	50.8		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	44.0		ug/L		88	44 - 146
1,1-Dichloroethane	50.0	50.1		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	49.8		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	48.5		ug/L		97	66 - 131
1,2-Dichloropropane	50.0	52.0		ug/L		104	70 - 130
Diethyl ether	50.0	47.9		ug/L		96	10 - 200
Ethylbenzene	50.0	51.6		ug/L		103	70 - 130
2-Hexanone	100	111		ug/L		111	42 - 185
Methylene Chloride	50.0	48.2		ug/L		96	67 - 130
4-Methyl-2-pentanone (MIBK)	100	99.0		ug/L		99	70 - 130
Methyl tert-butyl ether	100	98.2		ug/L		98	64 - 131
Styrene	50.0	52.6		ug/L		105	70 - 130
t-Butanol	50.0	47.8		ug/L		96	20 - 195
1,1,1,2-Tetrachloroethane	50.0	52.4		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	70 - 130
Tetrachloroethene	50.0	47.6		ug/L		95	70 - 130
Toluene	50.0	52.1		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	56.5		ug/L		113	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-202067/8
Matrix: Water
Analysis Batch: 202067

Client Sample ID: LCS 680-202067/8
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2,3-Trichlorobenzene	50.0	47.5		ug/L		95	70 - 130
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	70 - 130
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	70 - 130
Trichloroethylene	50.0	51.2		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	46.5		ug/L		93	55 - 156
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	70 - 130
Vinyl acetate	100	153		ug/L		153	60 - 176
Vinyl chloride	50.0	50.0		ug/L		100	67 - 134
Xylenes, Total	150	154		ug/L		103	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 680-202067/9
Matrix: Water
Analysis Batch: 202067

Client Sample ID: LCSD 680-202067/9
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	111		ug/L		111	26 - 180	2	50
Benzene	50.0	52.2		ug/L		104	70 - 130	1	30
Bromodichloromethane	50.0	53.0		ug/L		106	70 - 130	0	30
Bromoform	50.0	44.5		ug/L		89	70 - 130	2	30
Bromomethane	50.0	64.2		ug/L		128	23 - 165	29	50
2-Butanone	100	95.4		ug/L		95	49 - 172	1	30
Carbon disulfide	50.0	47.3		ug/L		95	54 - 132	0	30
Carbon tetrachloride	50.0	55.6		ug/L		111	70 - 130	2	30
Chlorobenzene	50.0	49.6		ug/L		99	70 - 130	2	30
Chloroethane	50.0	58.6		ug/L		117	56 - 152	7	40
Chloroform	50.0	51.1		ug/L		102	70 - 130	1	30
Chloromethane	50.0	45.6		ug/L		91	70 - 130	5	30
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	70 - 130	5	30
cis-1,3-Dichloropropene	50.0	55.9		ug/L		112	70 - 130	1	30
Dibromochloromethane	50.0	54.8		ug/L		110	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	50.0	50.1		ug/L		100	70 - 130	2	50
1,2-Dibromoethane	50.0	52.1		ug/L		104	70 - 130	2	30
Dibromomethane	50.0	49.6		ug/L		99	70 - 130	2	30
Dichlorodifluoromethane	50.0	44.4		ug/L		89	44 - 146	1	50
1,1-Dichloroethane	50.0	51.4		ug/L		103	70 - 130	3	30
1,2-Dichloroethane	50.0	50.1		ug/L		100	70 - 130	1	30
1,1-Dichloroethene	50.0	49.5		ug/L		99	66 - 131	2	30
1,2-Dichloropropane	50.0	51.2		ug/L		102	70 - 130	2	30
Diethyl ether	50.0	47.9		ug/L		96	10 - 200	0	50
Ethylbenzene	50.0	52.6		ug/L		105	70 - 130	2	30
2-Hexanone	100	115		ug/L		115	42 - 185	3	30
Methylene Chloride	50.0	48.1		ug/L		96	67 - 130	0	30
4-Methyl-2-pentanone (MIBK)	100	97.9		ug/L		98	70 - 130	1	30
Methyl tert-butyl ether	100	99.3		ug/L		99	64 - 131	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202067/9
Matrix: Water
Analysis Batch: 202067

Client Sample ID: LCSD 680-202067/9
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Styrene			50.0	53.9		ug/L		108	70 - 130	3	30
t-Butanol			50.0	47.7		ug/L		95	20 - 195	0	50
1,1,1,2-Tetrachloroethane			50.0	53.5		ug/L		107	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	50.8		ug/L		102	70 - 130	0	30
Tetrachloroethene			50.0	48.8		ug/L		98	70 - 130	2	30
Toluene			50.0	52.3		ug/L		105	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.0		ug/L		102	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	55.2		ug/L		110	70 - 130	2	50
1,2,3-Trichlorobenzene			50.0	49.0		ug/L		98	70 - 130	3	30
1,1,1-Trichloroethane			50.0	53.9		ug/L		108	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.0		ug/L		102	70 - 130	1	30
Trichloroethylene			50.0	51.4		ug/L		103	70 - 130	0	30
Trichlorofluoromethane			50.0	47.8		ug/L		96	55 - 156	3	30
1,2,3-Trichloropropane			50.0	49.1		ug/L		98	70 - 130	1	30
Vinyl acetate			100	155		ug/L		155	60 - 176	1	30
Vinyl chloride			50.0	51.4		ug/L		103	67 - 134	3	30
Xylenes, Total			150	156		ug/L		104	70 - 130	2	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 680-202151/7
Matrix: Water
Analysis Batch: 202151

Client Sample ID: MB 680-202151/7
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 22:03	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 22:03	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 22:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 22:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 22:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 22:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 22:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 22:03	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 22:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 22:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 22:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 22:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 22:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 22:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 22:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 22:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 22:03	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202151/7
Matrix: Water
Analysis Batch: 202151

Client Sample ID: MB 680-202151/7
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 22:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 22:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 22:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 22:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 22:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 22:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 22:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 22:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 22:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 22:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 22:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 22:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 22:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 22:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:03	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 22:03	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 22:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/05/11 22:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 22:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 22:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 22:03	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 22:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 22:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 22:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 22:03	1
1,2,3-Trichlorobenzene	0.408	J	1.0	0.35	ug/L			05/05/11 22:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 22:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 22:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 22:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 22:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 22:03	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1,2,4-Trichlorobenzene	*0.293*	*J N T*	*ug/L*		*10.00*	*120-82-1*		*05/05/11 22:03*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 22:03*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 22:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202151/7
Matrix: Water
Analysis Batch: 202151

Client Sample ID: MB 680-202151/7
Prep Type: Total/NA

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	*101*		*70 - 130*		*05/05/11 22:03*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/05/11 22:03*	*1*

Lab Sample ID: LCS 680-202151/6
Matrix: Water
Analysis Batch: 202151

Client Sample ID: LCS 680-202151/6
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	98.1		ug/L		98	26 - 180
Benzene	50.0	50.3		ug/L		101	70 - 130
Bromodichloromethane	50.0	52.2		ug/L		104	70 - 130
Bromoform	50.0	42.9		ug/L		86	70 - 130
Bromomethane	50.0	43.2		ug/L		86	23 - 165
2-Butanone	100	88.3		ug/L		88	49 - 172
Carbon disulfide	50.0	43.6		ug/L		87	54 - 132
Carbon tetrachloride	50.0	51.8		ug/L		104	70 - 130
Chlorobenzene	50.0	46.9		ug/L		94	70 - 130
Chloroethane	50.0	38.7		ug/L		77	56 - 152
Chloroform	50.0	47.5		ug/L		95	70 - 130
Chloromethane	50.0	44.0		ug/L		88	70 - 130
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	70 - 130
Dibromochloromethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/L		101	70 - 130
1,2-Dibromoethane	50.0	49.8		ug/L		100	70 - 130
Dibromomethane	50.0	48.7		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	45.2		ug/L		90	44 - 146
1,1-Dichloroethane	50.0	48.6		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	45.4		ug/L		91	66 - 131
1,2-Dichloropropane	50.0	49.1		ug/L		98	70 - 130
Diethyl ether	50.0	42.8		ug/L		86	10 - 200
Ethylbenzene	50.0	49.0		ug/L		98	70 - 130
2-Hexanone	100	102		ug/L		102	42 - 185
Methylene Chloride	50.0	45.8		ug/L		92	67 - 130
4-Methyl-2-pentanone (MIBK)	100	97.2		ug/L		97	70 - 130
Methyl tert-butyl ether	100	97.7		ug/L		98	64 - 131
Styrene	50.0	49.9		ug/L		100	70 - 130
t-Butanol	50.0	54.5		ug/L		109	20 - 195
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	70 - 130
Tetrachloroethene	50.0	45.9		ug/L		92	70 - 130
Toluene	50.0	49.7		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	53.9		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	50.0	46.0		ug/L		92	70 - 130
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	70 - 130
Trichloroethylene	50.0	48.5		ug/L		97	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-202151/6
Matrix: Water
Analysis Batch: 202151

Client Sample ID: LCS 680-202151/6
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Trichlorofluoromethane	50.0	41.8		ug/L		84	55 - 156
1,2,3-Trichloropropane	50.0	47.7		ug/L		95	70 - 130
Vinyl acetate	100	151		ug/L		151	60 - 176
Vinyl chloride	50.0	48.8		ug/L		98	67 - 134
Xylenes, Total	150	145		ug/L		97	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*70 - 130*
Dibromofluoromethane	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-202151/8
Matrix: Water
Analysis Batch: 202151

Client Sample ID: LCSD 680-202151/8
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	102		ug/L		102	26 - 180	4	50
Benzene	50.0	51.8		ug/L		104	70 - 130	3	30
Bromodichloromethane	50.0	51.7		ug/L		103	70 - 130	1	30
Bromoform	50.0	43.3		ug/L		87	70 - 130	1	30
Bromomethane	50.0	39.4		ug/L		79	23 - 165	9	50
2-Butanone	100	85.9		ug/L		86	49 - 172	3	30
Carbon disulfide	50.0	45.1		ug/L		90	54 - 132	3	30
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130	4	30
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130	3	30
Chloroethane	50.0	44.0		ug/L		88	56 - 152	13	40
Chloroform	50.0	48.9		ug/L		98	70 - 130	3	30
Chloromethane	50.0	44.1		ug/L		88	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	70 - 130	3	30
Dibromochloromethane	50.0	54.2		ug/L		108	70 - 130	3	50
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	70 - 130	2	50
1,2-Dibromoethane	50.0	49.8		ug/L		100	70 - 130	0	30
Dibromomethane	50.0	49.7		ug/L		99	70 - 130	2	30
Dichlorodifluoromethane	50.0	43.3		ug/L		87	44 - 146	4	50
1,1-Dichloroethane	50.0	49.2		ug/L		98	70 - 130	1	30
1,2-Dichloroethane	50.0	49.0		ug/L		98	70 - 130	2	30
1,1-Dichloroethene	50.0	47.5		ug/L		95	66 - 131	5	30
1,2-Dichloropropane	50.0	50.6		ug/L		101	70 - 130	3	30
Diethyl ether	50.0	49.3		ug/L		99	10 - 200	14	50
Ethylbenzene	50.0	50.8		ug/L		102	70 - 130	4	30
2-Hexanone	100	98.2		ug/L		98	42 - 185	3	30
Methylene Chloride	50.0	46.9		ug/L		94	67 - 130	2	30
4-Methyl-2-pentanone (MIBK)	100	93.4		ug/L		93	70 - 130	4	30
Methyl tert-butyl ether	100	93.4		ug/L		93	64 - 131	4	30
Styrene	50.0	51.7		ug/L		103	70 - 130	4	30
t-Butanol	50.0	46.0		ug/L		92	20 - 195	17	50
1,1,1,2-Tetrachloroethane	50.0	52.6		ug/L		105	70 - 130	3	30
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	70 - 130	0	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202151/8
Matrix: Water
Analysis Batch: 202151

Client Sample ID: LCSD 680-202151/8
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tetrachloroethene			50.0	47.0		ug/L		94	70 - 130	2	30
Toluene			50.0	51.4		ug/L		103	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	49.2		ug/L		98	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	52.3		ug/L		105	70 - 130	3	50
1,2,3-Trichlorobenzene			50.0	44.7		ug/L		89	70 - 130	3	30
1,1,1-Trichloroethane			50.0	52.1		ug/L		104	70 - 130	3	30
1,1,2-Trichloroethane			50.0	50.0		ug/L		100	70 - 130	0	30
Trichloroethylene			50.0	49.8		ug/L		100	70 - 130	3	30
Trichlorofluoromethane			50.0	47.0		ug/L		94	55 - 156	12	30
1,2,3-Trichloropropane			50.0	47.5		ug/L		95	70 - 130	0	30
Vinyl acetate			100	135		ug/L		135	60 - 176	11	30
Vinyl chloride			50.0	51.1		ug/L		102	67 - 134	5	30
Xylenes, Total			150	151		ug/L		101	70 - 130	4	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*96*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-203845/15
Matrix: Water
Analysis Batch: 203845

Client Sample ID: MB 680-203845/15
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/23/11 22:32	1
Acetonitrile	40	U	40	10	ug/L			05/23/11 22:32	1
Acrolein	20	U	20	7.4	ug/L			05/23/11 22:32	1
Acrylonitrile	20	U	20	7.2	ug/L			05/23/11 22:32	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/23/11 22:32	1
Benzene	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/23/11 22:32	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/23/11 22:32	1
2-Butanone	10	U	10	1.0	ug/L			05/23/11 22:32	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/23/11 22:32	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/23/11 22:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/23/11 22:32	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/23/11 22:32	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/23/11 22:32	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/23/11 22:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/23/11 22:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/23/11 22:32	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/23/11 22:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/23/11 22:32	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/23/11 22:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-203845/15
Matrix: Water
Analysis Batch: 203845

Client Sample ID: MB 680-203845/15
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/23/11 22:32	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/23/11 22:32	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/23/11 22:32	1
Diethyl ether	10	U	10	1.0	ug/L			05/23/11 22:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/23/11 22:32	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1
2-Hexanone	10	U	10	1.0	ug/L			05/23/11 22:32	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/23/11 22:32	1
Isobutyl alcohol	40	U	40	11	ug/L			05/23/11 22:32	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/23/11 22:32	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/23/11 22:32	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/23/11 22:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/23/11 22:32	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/23/11 22:32	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/23/11 22:32	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/23/11 22:32	1
Propionitrile	20	U	20	4.6	ug/L			05/23/11 22:32	1
Styrene	1.0	U	1.0	0.11	ug/L			05/23/11 22:32	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/23/11 22:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/23/11 22:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/23/11 22:32	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/23/11 22:32	1
Toluene	1.0	U	1.0	0.33	ug/L			05/23/11 22:32	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/23/11 22:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/23/11 22:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/23/11 22:32	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/23/11 22:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/23/11 22:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/23/11 22:32	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/23/11 22:32	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/23/11 22:32	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/23/11 22:32	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/23/11 22:32	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/23/11 22:32	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/23/11 22:32	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/23/11 22:32*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/23/11 22:32*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*05/23/11 22:32*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/23/11 22:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-203845/12
Matrix: Water
Analysis Batch: 203845

Client Sample ID: LCS 680-203845/12
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	99.8		ug/L		100	26 - 180
Benzene	50.0	53.3		ug/L		107	70 - 130
Bromodichloromethane	50.0	56.5		ug/L		113	70 - 130
Bromoform	50.0	48.3		ug/L		97	70 - 130
Bromomethane	50.0	32.3		ug/L		65	23 - 165
2-Butanone	100	103		ug/L		103	49 - 172
Carbon disulfide	50.0	49.4		ug/L		99	54 - 132
Carbon tetrachloride	50.0	55.4		ug/L		111	70 - 130
Chlorobenzene	50.0	47.4		ug/L		95	70 - 130
Chloroethane	50.0	38.0		ug/L		76	56 - 152
Chloroform	50.0	51.0		ug/L		102	70 - 130
Chloromethane	50.0	50.2		ug/L		100	70 - 130
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	58.4		ug/L		117	70 - 130
Dibromochloromethane	50.0	54.6		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	55.7		ug/L		111	70 - 130
1,2-Dibromoethane	50.0	55.9		ug/L		112	70 - 130
Dibromomethane	50.0	52.8		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	52.6		ug/L		105	44 - 146
1,1-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	52.6		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	47.6		ug/L		95	66 - 131
1,2-Dichloropropane	50.0	54.1		ug/L		108	70 - 130
Diethyl ether	50.0	52.7		ug/L		105	10 - 200
Ethylbenzene	50.0	50.2		ug/L		100	70 - 130
2-Hexanone	100	107		ug/L		107	42 - 185
Methylene Chloride	50.0	49.4		ug/L		99	67 - 130
4-Methyl-2-pentanone (MIBK)	100	113		ug/L		113	70 - 130
Methyl tert-butyl ether	100	96.1		ug/L		96	64 - 131
Styrene	50.0	54.8		ug/L		110	70 - 130
t-Butanol	50.0	61.9		ug/L		124	20 - 195
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.8		ug/L		110	70 - 130
Tetrachloroethene	50.0	46.8		ug/L		94	70 - 130
Toluene	50.0	55.2		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	59.1		ug/L		118	70 - 130
1,2,3-Trichlorobenzene	50.0	49.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	50.0	54.2		ug/L		108	70 - 130
1,1,2-Trichloroethane	50.0	55.1		ug/L		110	70 - 130
Trichloroethylene	50.0	50.1		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	44.0		ug/L		88	55 - 156
1,2,3-Trichloropropane	50.0	53.2		ug/L		106	70 - 130
Vinyl acetate	100	132		ug/L		132	60 - 176
Vinyl chloride	50.0	50.7		ug/L		101	67 - 134
Xylenes, Total	150	155		ug/L		104	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-203845/12
Matrix: Water
Analysis Batch: 203845

Client Sample ID: LCS 680-203845/12
Prep Type: Total/NA

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 680-203845/13
Matrix: Water
Analysis Batch: 203845

Client Sample ID: LCSD 680-203845/13
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone			100	95.7		ug/L		96	26 - 180	4	50
Benzene			50.0	52.9		ug/L		106	70 - 130	1	30
Bromodichloromethane			50.0	55.9		ug/L		112	70 - 130	1	30
Bromoform			50.0	46.8		ug/L		94	70 - 130	3	30
Bromomethane			50.0	38.2		ug/L		76	23 - 165	17	50
2-Butanone			100	98.6		ug/L		99	49 - 172	4	30
Carbon disulfide			50.0	48.8		ug/L		98	54 - 132	1	30
Carbon tetrachloride			50.0	55.9		ug/L		112	70 - 130	1	30
Chlorobenzene			50.0	47.9		ug/L		96	70 - 130	1	30
Chloroethane			50.0	36.7		ug/L		73	56 - 152	3	40
Chloroform			50.0	49.7		ug/L		99	70 - 130	3	30
Chloromethane			50.0	49.2		ug/L		98	70 - 130	2	30
cis-1,2-Dichloroethene			50.0	48.9		ug/L		98	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	58.6		ug/L		117	70 - 130	0	30
Dibromochloromethane			50.0	54.4		ug/L		109	70 - 130	0	50
1,2-Dibromo-3-Chloropropane			50.0	57.1		ug/L		114	70 - 130	2	50
1,2-Dibromoethane			50.0	55.9		ug/L		112	70 - 130	0	30
Dibromomethane			50.0	51.5		ug/L		103	70 - 130	2	30
Dichlorodifluoromethane			50.0	52.9		ug/L		106	44 - 146	1	50
1,1-Dichloroethane			50.0	49.6		ug/L		99	70 - 130	2	30
1,2-Dichloroethane			50.0	52.5		ug/L		105	70 - 130	0	30
1,1-Dichloroethene			50.0	47.5		ug/L		95	66 - 131	0	30
1,2-Dichloropropane			50.0	52.5		ug/L		105	70 - 130	3	30
Diethyl ether			50.0	51.9		ug/L		104	10 - 200	1	50
Ethylbenzene			50.0	50.9		ug/L		102	70 - 130	1	30
2-Hexanone			100	111		ug/L		111	42 - 185	4	30
Methylene Chloride			50.0	48.5		ug/L		97	67 - 130	2	30
4-Methyl-2-pentanone (MIBK)			100	111		ug/L		111	70 - 130	1	30
Methyl tert-butyl ether			100	95.9		ug/L		96	64 - 131	0	30
Styrene			50.0	55.8		ug/L		112	70 - 130	2	30
t-Butanol			50.0	62.0		ug/L		124	20 - 195	0	50
1,1,1,2-Tetrachloroethane			50.0	52.4		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	53.2		ug/L		106	70 - 130	3	30
Tetrachloroethene			50.0	46.4		ug/L		93	70 - 130	1	30
Toluene			50.0	54.5		ug/L		109	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	48.9		ug/L		98	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	59.3		ug/L		119	70 - 130	0	50
1,2,3-Trichlorobenzene			50.0	50.5		ug/L		101	70 - 130	1	30
1,1,1-Trichloroethane			50.0	54.5		ug/L		109	70 - 130	1	30
1,1,2-Trichloroethane			50.0	54.9		ug/L		110	70 - 130	0	30
Trichloroethylene			50.0	51.2		ug/L		102	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-203845/13
Matrix: Water
Analysis Batch: 203845

Client Sample ID: LCSD 680-203845/13
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			50.0	43.3		ug/L		87	55 - 156	2	30
1,2,3-Trichloropropane			50.0	50.8		ug/L		102	70 - 130	5	30
Vinyl acetate			100	128		ug/L		128	60 - 176	3	30
Vinyl chloride			50.0	50.0		ug/L		100	67 - 134	1	30
Xylenes, Total			150	157		ug/L		105	70 - 130	1	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Acetophenone	0.195	J	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/03/11 14:47	05/08/11 12:29	1
Aniline	2.0	U	2.0	0.97	ug/L		05/03/11 14:47	05/08/11 12:29	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/03/11 14:47	05/08/11 12:29	1
Diallate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,4-Dichlorobenzene	0.227	J	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/08/11 12:29	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/03/11 14:47	05/08/11 12:29	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/03/11 14:47	05/08/11 12:29	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/03/11 14:47	05/08/11 12:29	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Famphur	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/08/11 12:29	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachlorophene	500	U	500	25	ug/L		05/03/11 14:47	05/08/11 12:29	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Methapyrilene	200	U	200	1.3	ug/L		05/03/11 14:47	05/08/11 12:29	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/03/11 14:47	05/08/11 12:29	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/03/11 14:47	05/08/11 12:29	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/08/11 12:29	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/08/11 12:29	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
o,o',o''-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenol	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Phorate	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/08/11 12:29	1
p-Phenylene diamine	200	U	200	16	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/03/11 14:47	05/08/11 12:29	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/08/11 12:29	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/08/11 12:29	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/08/11 12:29	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/08/11 12:29	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*19.5*	*T A J*	*ug/L*		*4.02*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*1.32*	*T J*	*ug/L*		*5.00*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*6.12*	*T J*	*ug/L*		*5.08*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*0.555*	*T J*	*ug/L*		*6.31*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*2.50*	*T J*	*ug/L*		*8.69*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*0.615*	*T J*	*ug/L*		*11.24*		*05/03/11 14:47*	*05/08/11 12:29*	*1*
Oleic Acid	*4.83*	*T J N*	*ug/L*		*12.19*	*112-80-1*	*05/03/11 14:47*	*05/08/11 12:29*	*1*
Unknown	*1.30*	*T J*	*ug/L*		*12.39*		*05/03/11 14:47*	*05/08/11 12:29*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201675/18-A
Matrix: Water
Analysis Batch: 202264

Client Sample ID: MB 680-201675/18-A
Prep Type: Total/NA
Prep Batch: 201675

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Organic Acid	3.18	T J	ug/L		14.03		05/03/11 14:47	05/08/11 12:29	1
Tricosane	0.588	T J N	ug/L		14.09	638-67-5	05/03/11 14:47	05/08/11 12:29	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		34 - 130	05/03/11 14:47	05/08/11 12:29	1
2-Fluorophenol	56		25 - 130	05/03/11 14:47	05/08/11 12:29	1
Nitrobenzene-d5	64		32 - 130	05/03/11 14:47	05/08/11 12:29	1
Phenol-d5	52		27 - 130	05/03/11 14:47	05/08/11 12:29	1
Terphenyl-d14	69		36 - 130	05/03/11 14:47	05/08/11 12:29	1
2,4,6-Tribromophenol	67		30 - 130	05/03/11 14:47	05/08/11 12:29	1

Lab Sample ID: LCS 680-201675/19-A
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LCS 680-201675/19-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	2.00	1.38		ug/L		69	42 - 130
Acenaphthylene	2.00	1.43		ug/L		71	45 - 130
Acetophenone	10.0	6.26		ug/L		63	45 - 130
Aniline	10.0	5.33		ug/L		53	10 - 130
Anthracene	2.00	1.35		ug/L		68	58 - 130
Benzo[a]anthracene	2.00	1.40		ug/L		70	42 - 143
Benzo[a]pyrene	2.00	1.37		ug/L		68	45 - 151
Benzo[b]fluoranthene	2.00	1.46		ug/L		73	41 - 140
Benzo[g,h,i]perylene	2.00	1.28		ug/L		64	27 - 134
Benzo[k]fluoranthene	2.00	1.60		ug/L		80	45 - 140
Benzyl alcohol	10.0	4.32		ug/L		43	34 - 130
1,1'-Biphenyl	10.0	6.41		ug/L		64	50 - 130
Bis(2-chloroethoxy)methane	10.0	6.66		ug/L		67	47 - 130
Bis(2-chloroethyl)ether	10.0	6.36		ug/L		64	36 - 130
Bis(2-ethylhexyl) phthalate	10.0	6.96		ug/L		70	10 - 158
4-Bromophenyl phenyl ether	10.0	7.02		ug/L		70	44 - 130
Butyl benzyl phthalate	10.0	7.92		ug/L		79	60 - 130
4-Chloroaniline	10.0	5.65		ug/L		56	17 - 130
4-Chloro-3-methylphenol	10.0	5.66		ug/L		57	54 - 130
2-Chloronaphthalene	10.0	6.09		ug/L		61	48 - 130
2-Chlorophenol	10.0	5.46		ug/L		55	45 - 130
4-Chlorophenyl phenyl ether	10.0	6.62		ug/L		66	52 - 130
Chrysene	2.00	1.41		ug/L		70	40 - 142
Dibenz(a,h)anthracene	2.00	1.21		ug/L		61	38 - 130
Dibenzofuran	10.0	6.60		ug/L		66	56 - 130
1,2-Dichlorobenzene	10.0	5.37		ug/L		54	36 - 130
1,3-Dichlorobenzene	10.0	5.29		ug/L		53	31 - 130
1,4-Dichlorobenzene	10.0	5.71		ug/L		57	34 - 130
3,3'-Dichlorobenzidine	10.0	7.13	J	ug/L		71	10 - 158
2,4-Dichlorophenol	10.0	5.70	*	ug/L		57	58 - 130
Diethyl phthalate	10.0	7.18		ug/L		72	60 - 130
2,4-Dimethylphenol	10.0	3.81	*	ug/L		38	41 - 130
Dimethyl phthalate	10.0	6.96		ug/L		70	58 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201675/19-A
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LCS 680-201675/19-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Di-n-butyl phthalate	10.0	7.01		ug/L		70	59 - 130
4,6-Dinitro-2-methylphenol	10.0	5.65		ug/L		56	10 - 182
2,4-Dinitrophenol	10.0	4.24	J	ug/L		42	10 - 200
2,4-Dinitrotoluene	10.0	5.91		ug/L		59	57 - 130
2,6-Dinitrotoluene	10.0	7.15		ug/L		71	53 - 130
Di-n-octyl phthalate	10.0	6.78		ug/L		68	19 - 130
1,4-Dioxane	10.0	3.66		ug/L		37	10 - 130
Fluoranthene	2.00	1.38		ug/L		69	46 - 136
Fluorene	2.00	1.35		ug/L		68	48 - 130
Hexachlorobenzene	10.0	6.66		ug/L		67	49 - 130
Hexachlorobutadiene	10.0	5.82		ug/L		58	36 - 130
Hexachlorocyclopentadiene	10.0	7.01		ug/L		70	16 - 130
Hexachloroethane	10.0	5.67		ug/L		57	32 - 130
Indeno[1,2,3-cd]pyrene	2.00	1.07		ug/L		54	12 - 130
Isophorone	10.0	5.77		ug/L		58	45 - 130
2-Methylnaphthalene	2.00	1.29		ug/L		65	51 - 130
2-Methylphenol	10.0	5.69		ug/L		57	49 - 130
3 & 4 Methylphenol	10.0	5.38	*	ug/L		54	55 - 130
Naphthalene	2.00	1.26		ug/L		63	35 - 130
2-Nitroaniline	10.0	6.97		ug/L		70	48 - 130
3-Nitroaniline	10.0	7.21		ug/L		72	18 - 147
4-Nitroaniline	10.0	8.06		ug/L		81	31 - 147
Nitrobenzene	10.0	5.99		ug/L		60	45 - 130
2-Nitrophenol	10.0	6.41		ug/L		64	49 - 130
4-Nitrophenol	10.0	4.56	J	ug/L		46	36 - 132
N-Nitrosodimethylamine	10.0	6.43		ug/L		64	29 - 130
N-Nitrosodi-n-propylamine	10.0	6.64		ug/L		66	42 - 130
N-Nitrosodiphenylamine	10.0	7.00		ug/L		70	38 - 130
2,2'-oxybis[1-chloropropane]	10.0	6.35		ug/L		63	39 - 130
Pentachlorophenol	10.0	4.27	J	ug/L		43	12 - 156
Phenanthrene	2.00	1.40		ug/L		70	45 - 134
Phenol	10.0	5.06		ug/L		51	44 - 130
Pyrene	2.00	1.51		ug/L		75	47 - 143
Pyridine	10.0	4.21	J	ug/L		42	10 - 130
1,2,4-Trichlorobenzene	10.0	5.45		ug/L		55	39 - 130
2,4,5-Trichlorophenol	10.0	6.32		ug/L		63	61 - 130
2,4,6-Trichlorophenol	10.0	6.22		ug/L		62	61 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*34 - 130*
2-Fluorophenol	*61*		*25 - 130*
Nitrobenzene-d5	*64*		*32 - 130*
Phenol-d5	*54*		*27 - 130*
Terphenyl-d14	*70*		*36 - 130*
2,4,6-Tribromophenol	*72*		*30 - 130*

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201675/22-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201675/22-A
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2-Acetylaminofluorene	10.0	8.74		ug/L		87	10 - 130
alpha,alpha-Dimethyl phenethylamine	10.0	5.83	J	ug/L		58	10 - 130
4-Aminobiphenyl	10.0	4.88	J	ug/L		49	10 - 130
Aramite, Total	10.0	7.78		ug/L		78	10 - 130
Diallate	10.0	6.82		ug/L		68	10 - 130
2,6-Dichlorophenol	10.0	6.95		ug/L		70	10 - 130
Dimethoate	10.0	5.59		ug/L		56	10 - 130
7,12-Dimethylbenz(a)anthracene	10.0	5.88		ug/L		59	10 - 130
3,3'-Dimethylbenzidine	10.0	28.6	*	ug/L		286	10 - 130
Disulfoton	10.0	5.99		ug/L		60	10 - 130
Ethyl methanesulfonate	10.0	7.85		ug/L		79	10 - 130
Ethyl Parathion	10.0	7.76		ug/L		78	10 - 130
Famphur	10.0	1.45		ug/L		14	10 - 130
Hexachlorophene	50.0	500	U *	ug/L		6	10 - 130
Hexachloropropene	10.0	2.59		ug/L		26	10 - 130
Isosafrole	10.0	6.57		ug/L		66	10 - 130
m-Dinitrobenzene	10.0	6.70		ug/L		67	10 - 130
Methapyrilene	50.0	27.1	J	ug/L		54	10 - 130
3-Methylcholanthrene	10.0	6.47		ug/L		65	10 - 130
Methyl methanesulfonate	10.0	4.13		ug/L		41	10 - 130
Methyl parathion	10.0	6.19		ug/L		62	10 - 130
1-Naphthalenamine	10.0	5.41		ug/L		54	10 - 130
2-Naphthalenamine	10.0	5.44		ug/L		54	10 - 130
1,4-Naphthoquinone	10.0	2.08		ug/L		21	10 - 130
5-Nitro-o-toluidine	10.0	7.59		ug/L		76	10 - 130
4-Nitroquinoline-1-oxide	10.0	5.87		ug/L		59	10 - 130
N-Nitrosodiethylamine	10.0	6.44		ug/L		64	10 - 130
N-Nitrosodi-n-butylamine	10.0	6.82		ug/L		68	10 - 130
N-Nitrosomethylethylamine	10.0	6.54		ug/L		65	10 - 130
N-Nitrosomorpholine	10.0	7.08		ug/L		71	10 - 130
N-Nitrosopiperidine	10.0	6.86		ug/L		69	10 - 130
N-Nitrosopyrrolidine	10.0	6.89		ug/L		69	10 - 130
o,o',o''-Triethylphosphorothioate	10.0	5.91		ug/L		59	10 - 130
o-Toluidine	10.0	5.28		ug/L		53	10 - 130
p-Dimethylamino azobenzene	10.0	8.01		ug/L		80	10 - 130
Pentachlorobenzene	10.0	5.91		ug/L		59	10 - 130
Pentachloronitrobenzene	10.0	7.08		ug/L		71	10 - 130
Phenacetin	10.0	7.31		ug/L		73	10 - 130
Phorate	10.0	6.49		ug/L		65	10 - 130
2-Picoline	10.0	5.42		ug/L		54	10 - 130
p-Phenylene diamine	10.0	200	U	ug/L		71	10 - 130
Pronamide	10.0	7.47		ug/L		75	10 - 130
Safrole, Total	10.0	5.99		ug/L		60	10 - 130
2-sec-Butyl-4,6-dinitrophenol	10.0	10.8		ug/L		108	10 - 130
Sulfotepp	10.0	6.51		ug/L		65	10 - 130
1,2,4,5-Tetrachlorobenzene	10.0	4.87		ug/L		49	10 - 130
2,3,4,6-Tetrachlorophenol	10.0	7.25		ug/L		73	10 - 130
Thionazin	10.0	7.79		ug/L		78	10 - 130
1,3,5-Trinitrobenzene	10.0	7.37		ug/L		74	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201675/22-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201675/22-A
Prep Type: Total/NA
Prep Batch: 201675

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	58		34 - 130
2-Fluorophenol	54		25 - 130
Nitrobenzene-d5	57		32 - 130
Phenol-d5	55		27 - 130
Terphenyl-d14	66		36 - 130
2,4,6-Tribromophenol	75		30 - 130

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	0.20	U	2.00	0.996		ug/L		50	42 - 130
Acenaphthylene	0.20	U	2.00	1.03		ug/L		52	45 - 130
Acetophenone	0.25	J B	10.0	5.24		ug/L		50	45 - 130
Aniline	2.0	U	10.0	2.0	U F	ug/L		0	10 - 130
Anthracene	0.20	U	2.00	1.15	F	ug/L		57	58 - 130
Benzo[a]anthracene	0.20	U	2.00	1.25		ug/L		62	42 - 143
Benzo[a]pyrene	0.20	U	2.00	0.852	F	ug/L		43	45 - 151
Benzo[b]fluoranthene	0.20	U	2.00	1.01		ug/L		50	41 - 140
Benzo[g,h,i]perylene	0.20	U	2.00	0.949		ug/L		47	27 - 134
Benzo[k]fluoranthene	0.20	U	2.00	1.22		ug/L		61	45 - 140
Benzyl alcohol	1.0	U	10.0	2.94	F	ug/L		29	34 - 130
1,1'-Biphenyl	1.0	U	10.0	4.60	F	ug/L		46	50 - 130
Bis(2-chloroethoxy)methane	1.0	U	10.0	5.32		ug/L		53	47 - 130
Bis(2-chloroethyl)ether	1.0	U	10.0	5.08		ug/L		51	36 - 130
Bis(2-ethylhexyl) phthalate	1.2	J	10.0	4.01		ug/L		28	10 - 158
4-Bromophenyl phenyl ether	1.0	U	10.0	5.77		ug/L		58	44 - 130
Butyl benzyl phthalate	0.17	J	10.0	6.71		ug/L		65	60 - 130
4-Chloroaniline	2.0	U	10.0	0.923	J F	ug/L		9	17 - 130
4-Chloro-3-methylphenol	1.0	U	10.0	4.54	F	ug/L		45	54 - 130
2-Chloronaphthalene	1.0	U	10.0	4.28	F	ug/L		43	48 - 130
2-Chlorophenol	1.0	U	10.0	4.27	F	ug/L		43	45 - 130
4-Chlorophenyl phenyl ether	1.0	U	10.0	4.97	F	ug/L		50	52 - 130
Chrysene	0.20	U	2.00	1.30		ug/L		65	40 - 142
Dibenz(a,h)anthracene	0.20	U	2.00	1.02		ug/L		51	38 - 130
Dibenzofuran	1.0	U	10.0	5.07	F	ug/L		51	56 - 130
1,2-Dichlorobenzene	1.0	U	10.0	3.32	F	ug/L		33	36 - 130
1,3-Dichlorobenzene	1.0	U	10.0	3.07		ug/L		31	31 - 130
1,4-Dichlorobenzene	0.28	J B	10.0	3.70		ug/L		34	34 - 130
3,3'-Dichlorobenzidine	20	U	10.0	20	U F	ug/L		0	10 - 158
2,4-Dichlorophenol	1.0	U *	10.0	4.65	F	ug/L		47	58 - 130
Diethyl phthalate	1.0	U	10.0	6.06		ug/L		61	60 - 130
2,4-Dimethylphenol	2.0	U *	10.0	4.60		ug/L		46	41 - 130
Dimethyl phthalate	1.0	U	10.0	5.71	F	ug/L		57	58 - 130
Di-n-butyl phthalate	1.0	U	10.0	6.31		ug/L		63	59 - 130
4,6-Dinitro-2-methylphenol	5.0	U	10.0	5.68		ug/L		57	10 - 182
2,4-Dinitrophenol	10	U	10.0	6.06	J	ug/L		61	10 - 200
2,4-Dinitrotoluene	1.0	U	10.0	4.71	F	ug/L		47	57 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
2,6-Dinitrotoluene	1.0	U	10.0	5.57		ug/L		56	53 - 130
Di-n-octyl phthalate	1.0	U	10.0	3.61		ug/L		36	19 - 130
1,4-Dioxane	0.83	J	10.0	4.26		ug/L		34	10 - 130
Fluoranthene	0.20	U	2.00	1.27		ug/L		64	46 - 136
Fluorene	0.20	U	2.00	1.06		ug/L		53	48 - 130
Hexachlorobenzene	1.0	U	10.0	5.04		ug/L		50	49 - 130
Hexachlorobutadiene	1.0	U	10.0	3.37	F	ug/L		34	36 - 130
Hexachlorocyclopentadiene	2.0	U	10.0	4.86		ug/L		49	16 - 130
Hexachloroethane	1.0	U	10.0	3.21		ug/L		32	32 - 130
Indeno[1,2,3-cd]pyrene	0.20	U	2.00	1.08		ug/L		54	12 - 130
Isophorone	1.0	U	10.0	4.70		ug/L		47	45 - 130
2-Methylnaphthalene	0.20	U	2.00	0.926	F	ug/L		46	51 - 130
2-Methylphenol	2.0	U	10.0	4.99		ug/L		50	49 - 130
3 & 4 Methylphenol	2.0	U *	10.0	4.74	F	ug/L		47	55 - 130
Naphthalene	0.20	U	2.00	0.938		ug/L		47	35 - 130
2-Nitroaniline	1.0	U	10.0	5.57		ug/L		56	48 - 130
3-Nitroaniline	5.0	U	10.0	2.32	J	ug/L		23	18 - 147
4-Nitroaniline	5.0	U	10.0	4.59	J	ug/L		46	31 - 147
Nitrobenzene	1.0	U	10.0	4.84		ug/L		48	45 - 130
2-Nitrophenol	1.0	U	10.0	4.89		ug/L		49	49 - 130
4-Nitrophenol	5.0	U	10.0	4.24	J	ug/L		42	36 - 132
N-Nitrosodimethylamine	1.0	U	10.0	5.05		ug/L		51	29 - 130
N-Nitrosodi-n-propylamine	1.0	U	10.0	5.26		ug/L		53	42 - 130
N-Nitrosodiphenylamine	1.0	U	10.0	4.66		ug/L		47	38 - 130
2,2'-oxybis[1-chloropropane]	1.0	U	10.0	4.95		ug/L		49	39 - 130
Pentachlorophenol	5.0	U	10.0	5.15		ug/L		52	12 - 156
Phenanthrene	0.20	U	2.00	1.22		ug/L		61	45 - 134
Phenol	1.0	U	10.0	3.86	F	ug/L		39	44 - 130
Pyrene	0.20	U	2.00	1.25		ug/L		62	47 - 143
Pyridine	5.0	U	10.0	1.46	J	ug/L		15	10 - 130
1,2,4-Trichlorobenzene	1.0	U	10.0	3.37	F	ug/L		34	39 - 130
2,4,5-Trichlorophenol	1.0	U	10.0	5.02	F	ug/L		50	61 - 130
2,4,6-Trichlorophenol	1.0	U	10.0	4.97	F	ug/L		50	61 - 130

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*50*		*34 - 130*
2-Fluorophenol	*47*		*25 - 130*
Nitrobenzene-d5	*54*		*32 - 130*
Phenol-d5	*42*		*27 - 130*
Terphenyl-d14	*54*		*36 - 130*
2,4,6-Tribromophenol	*63*		*30 - 130*

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
2-Acetylaminofluorene	1.0	U	10.0	6.69		ug/L		67	10 - 130
alpha,alpha-Dimethyl phenethylamine	10	U	10.0	4.13	J	ug/L		41	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Aminobiphenyl	5.0	U	10.0	0.466	J F	ug/L		5	10 - 130
Aramite, Total	1.5	U	10.0	5.36		ug/L		54	10 - 130
Diallate	1.0	U	10.0	4.64		ug/L		46	10 - 130
2,6-Dichlorophenol	1.0	U	10.0	5.47		ug/L		55	10 - 130
Dimethoate	2.0	U	10.0	4.12		ug/L		41	10 - 130
7,12-Dimethylbenz(a)anthracene	1.0	U	10.0	1.74		ug/L		17	10 - 130
3,3'-Dimethylbenzidine	20	U *	10.0	20	U F	ug/L		0	10 - 130
Disulfoton	1.0	U	10.0	2.48		ug/L		25	10 - 130
Ethyl methanesulfonate	2.0	U	10.0	3.36		ug/L		34	10 - 130
Ethyl Parathion	2.0	U	10.0	8.04		ug/L		80	10 - 130
Famphur	1.0	U	10.0	7.44		ug/L		74	10 - 130
Hexachlorophene	500	U *	50.0	500	U F	ug/L		0	10 - 130
Hexachloropropene	1.0	U	10.0	2.34		ug/L		23	10 - 130
Isosafrole	1.0	U	10.0	4.06		ug/L		41	10 - 130
m-Dinitrobenzene	1.0	U	10.0	5.42		ug/L		54	10 - 130
Methapyrilene	200	U	50.0	200	U F	ug/L		0	10 - 130
3-Methylcholanthrene	1.0	U	10.0	1.0	U F	ug/L		0	10 - 130
Methyl methanesulfonate	2.0	U	10.0	3.58		ug/L		36	10 - 130
Methyl parathion	1.0	U	10.0	7.17		ug/L		72	10 - 130
1-Naphthalenamine	5.0	U	10.0	5.0	U F	ug/L		0	10 - 130
2-Naphthalenamine	5.0	U	10.0	5.0	U F	ug/L		0	10 - 130
1,4-Naphthoquinone	1.0	U	10.0	5.96		ug/L		60	10 - 130
5-Nitro-o-toluidine	1.0	U	10.0	3.86		ug/L		39	10 - 130
4-Nitroquinoline-1-oxide	2.0	U	10.0	4.38		ug/L		44	10 - 130
N-Nitrosodiethylamine	1.0	U	10.0	5.19		ug/L		52	10 - 130
N-Nitrosodi-n-butylamine	1.0	U	10.0	4.97		ug/L		50	10 - 130
N-Nitrosomethylethylamine	2.0	U	10.0	5.18		ug/L		52	10 - 130
N-Nitrosomorpholine	1.0	U	10.0	5.25		ug/L		52	10 - 130
N-Nitrosopiperidine	1.0	U	10.0	5.18		ug/L		52	10 - 130
N-Nitrosopyrrolidine	1.0	U	10.0	5.38		ug/L		54	10 - 130
o,o',o''-Triethylphosphorothioate	1.0	U	10.0	5.14		ug/L		51	10 - 130
o-Toluidine	1.0	U	10.0	1.36		ug/L		14	10 - 130
p-Dimethylamino azobenzene	5.0	U	10.0	6.27		ug/L		63	10 - 130
Pentachlorobenzene	1.0	U	10.0	4.39		ug/L		44	10 - 130
Pentachloronitrobenzene	1.0	U	10.0	6.60		ug/L		66	10 - 130
Phenacetin	1.0	U	10.0	7.40		ug/L		74	10 - 130
Phorate	1.0	U	10.0	4.10		ug/L		41	10 - 130
2-Picoline	2.0	U	10.0	3.07		ug/L		31	10 - 130
p-Phenylene diamine	200	U	10.0	200	U	ug/L		NC	10 - 130
Pronamide	1.0	U	10.0	5.75		ug/L		58	10 - 130
Safrole, Total	1.0	U	10.0	4.65		ug/L		46	10 - 130
2-sec-Butyl-4,6-dinitrophenol	2.0	U	10.0	8.18		ug/L		82	10 - 130
Sulfotepp	1.0	U	10.0	5.04		ug/L		50	10 - 130
1,2,4,5-Tetrachlorobenzene	1.0	U	10.0	3.01		ug/L		30	10 - 130
2,3,4,6-Tetrachlorophenol	1.0	U	10.0	5.43		ug/L		54	10 - 130
Thionazin	1.0	U	10.0	5.72		ug/L		57	10 - 130
1,3,5-Trinitrobenzene	1.0	U	10.0	11.3		ug/L		113	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Surrogate	MS % Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	41		34 - 130
2-Fluorophenol	41		25 - 130
Nitrobenzene-d5	46		32 - 130
Phenol-d5	37		27 - 130
Terphenyl-d14	59		36 - 130
2,4,6-Tribromophenol	51		30 - 130

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	0.20	U	2.00	1.01		ug/L		50	42 - 130	1	50
Acenaphthylene	0.20	U	2.00	1.18		ug/L		59	45 - 130	13	50
Acetophenone	0.25	J B	10.0	5.52		ug/L		53	45 - 130	5	50
Aniline	2.0	U	10.0	4.32		ug/L		43	10 - 130	NC	50
Anthracene	0.20	U	2.00	1.19		ug/L		59	58 - 130	4	50
Benzo[a]anthracene	0.20	U	2.00	1.27		ug/L		64	42 - 143	2	50
Benzo[a]pyrene	0.20	U	2.00	0.910		ug/L		46	45 - 151	7	50
Benzo[b]fluoranthene	0.20	U	2.00	1.13		ug/L		57	41 - 140	11	50
Benzo[g,h,i]perylene	0.20	U	2.00	1.09		ug/L		54	27 - 134	14	50
Benzo[k]fluoranthene	0.20	U	2.00	1.24		ug/L		62	45 - 140	2	50
Benzyl alcohol	1.0	U	10.0	3.43		ug/L		34	34 - 130	15	50
1,1'-Biphenyl	1.0	U	10.0	4.92	F	ug/L		49	50 - 130	7	50
Bis(2-chloroethoxy)methane	1.0	U	10.0	5.45		ug/L		55	47 - 130	2	50
Bis(2-chloroethyl)ether	1.0	U	10.0	5.48		ug/L		55	36 - 130	8	50
Bis(2-ethylhexyl) phthalate	1.2	J	10.0	4.29		ug/L		30	10 - 158	7	50
4-Bromophenyl phenyl ether	1.0	U	10.0	5.71		ug/L		57	44 - 130	1	50
Butyl benzyl phthalate	0.17	J	10.0	6.98		ug/L		68	60 - 130	4	50
4-Chloroaniline	2.0	U	10.0	4.26	F	ug/L		43	17 - 130	129	50
4-Chloro-3-methylphenol	1.0	U	10.0	4.92	F	ug/L		49	54 - 130	8	50
2-Chloronaphthalene	1.0	U	10.0	4.59	F	ug/L		46	48 - 130	7	50
2-Chlorophenol	1.0	U	10.0	4.65		ug/L		47	45 - 130	9	50
4-Chlorophenyl phenyl ether	1.0	U	10.0	5.24		ug/L		52	52 - 130	5	50
Chrysene	0.20	U	2.00	1.24		ug/L		62	40 - 142	5	50
Dibenz(a,h)anthracene	0.20	U	2.00	1.08		ug/L		54	38 - 130	6	50
Dibenzofuran	1.0	U	10.0	5.43	F	ug/L		54	56 - 130	7	50
1,2-Dichlorobenzene	1.0	U	10.0	3.71		ug/L		37	36 - 130	11	50
1,3-Dichlorobenzene	1.0	U	10.0	3.67		ug/L		37	31 - 130	18	50
1,4-Dichlorobenzene	0.28	J B	10.0	4.16		ug/L		39	34 - 130	12	50
3,3'-Dichlorobenzidine	20	U	10.0	4.24	J	ug/L		42	10 - 158	NC	50
2,4-Dichlorophenol	1.0	U *	10.0	4.74	F	ug/L		47	58 - 130	2	50
Diethyl phthalate	1.0	U	10.0	6.24		ug/L		62	60 - 130	3	50
2,4-Dimethylphenol	2.0	U *	10.0	3.57	F	ug/L		36	41 - 130	25	50
Dimethyl phthalate	1.0	U	10.0	5.87		ug/L		59	58 - 130	3	50
Di-n-butyl phthalate	1.0	U	10.0	6.45		ug/L		65	59 - 130	2	50
4,6-Dinitro-2-methylphenol	5.0	U	10.0	5.92		ug/L		59	10 - 182	4	50
2,4-Dinitrophenol	10	U	10.0	5.69	J	ug/L		57	10 - 200	6	50
2,4-Dinitrotoluene	1.0	U	10.0	5.15	F	ug/L		52	57 - 130	9	50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene	1.0	U	10.0	5.61		ug/L		56	53 - 130	1	50
Di-n-octyl phthalate	1.0	U	10.0	3.85		ug/L		38	19 - 130	6	50
1,4-Dioxane	0.83	J	10.0	4.11		ug/L		33	10 - 130	3	50
Fluoranthene	0.20	U	2.00	1.28		ug/L		64	46 - 136	1	50
Fluorene	0.20	U	2.00	1.12		ug/L		56	48 - 130	6	50
Hexachlorobenzene	1.0	U	10.0	5.24		ug/L		52	49 - 130	4	50
Hexachlorobutadiene	1.0	U	10.0	4.07		ug/L		41	36 - 130	19	50
Hexachlorocyclopentadiene	2.0	U	10.0	5.75		ug/L		57	16 - 130	17	50
Hexachloroethane	1.0	U	10.0	3.83		ug/L		38	32 - 130	18	50
Indeno[1,2,3-cd]pyrene	0.20	U	2.00	1.03		ug/L		52	12 - 130	4	50
Isophorone	1.0	U	10.0	4.74		ug/L		47	45 - 130	1	50
2-Methylnaphthalene	0.20	U	2.00	1.01	F	ug/L		50	51 - 130	9	50
2-Methylphenol	2.0	U	10.0	5.05		ug/L		51	49 - 130	1	50
3 & 4 Methylphenol	2.0	U *	10.0	4.51	F	ug/L		45	55 - 130	5	50
Naphthalene	0.20	U	2.00	1.01		ug/L		51	35 - 130	8	50
2-Nitroaniline	1.0	U	10.0	5.73		ug/L		57	48 - 130	3	50
3-Nitroaniline	5.0	U	10.0	5.70	F	ug/L		57	18 - 147	84	50
4-Nitroaniline	5.0	U	10.0	6.39		ug/L		64	31 - 147	33	50
Nitrobenzene	1.0	U	10.0	5.09		ug/L		51	45 - 130	5	50
2-Nitrophenol	1.0	U	10.0	5.08		ug/L		51	49 - 130	4	50
4-Nitrophenol	5.0	U	10.0	4.62	J	ug/L		46	36 - 132	9	50
N-Nitrosodimethylamine	1.0	U	10.0	5.60		ug/L		56	29 - 130	10	50
N-Nitrosodi-n-propylamine	1.0	U	10.0	5.46		ug/L		55	42 - 130	4	50
N-Nitrosodiphenylamine	1.0	U	10.0	5.40		ug/L		54	38 - 130	15	50
2,2'-oxybis[1-chloropropane]	1.0	U	10.0	5.16		ug/L		52	39 - 130	4	50
Pentachlorophenol	5.0	U	10.0	4.15	J	ug/L		41	12 - 156	22	50
Phenanthrene	0.20	U	2.00	1.19		ug/L		59	45 - 134	3	50
Phenol	1.0	U	10.0	4.40		ug/L		44	44 - 130	13	50
Pyrene	0.20	U	2.00	1.21		ug/L		61	47 - 143	3	50
Pyridine	5.0	U	10.0	3.51	J F	ug/L		35	10 - 130	82	50
1,2,4-Trichlorobenzene	1.0	U	10.0	3.87		ug/L		39	39 - 130	14	50
2,4,5-Trichlorophenol	1.0	U	10.0	5.14	F	ug/L		51	61 - 130	2	50
2,4,6-Trichlorophenol	1.0	U	10.0	5.09	F	ug/L		51	61 - 130	2	50

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*54*		*34 - 130*
2-Fluorophenol	*51*		*25 - 130*
Nitrobenzene-d5	*56*		*32 - 130*
Phenol-d5	*48*		*27 - 130*
Terphenyl-d14	*55*		*36 - 130*
2,4,6-Tribromophenol	*64*		*30 - 130*

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	1.0	U	10.0	6.73		ug/L		67	10 - 130	1	50
alpha,alpha-Dimethyl phenethylamine	10	U	10.0	3.84	J	ug/L		38	10 - 130	7	50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4-Aminobiphenyl	5.0	U	10.0	2.09	J F	ug/L		21	10 - 130	127	50
Aramite, Total	1.5	U	10.0	7.05		ug/L		71	10 - 130	27	50
Diallate	1.0	U	10.0	4.81		ug/L		48	10 - 130	4	50
2,6-Dichlorophenol	1.0	U	10.0	5.68		ug/L		57	10 - 130	4	50
Dimethoate	2.0	U	10.0	4.03		ug/L		40	10 - 130	2	50
7,12-Dimethylbenz(a)anthracene	1.0	U	10.0	3.63	F	ug/L		36	10 - 130	70	50
3,3'-Dimethylbenzidine	20	U *	10.0	20	U F	ug/L		0	10 - 130	NC	50
Disulfoton	1.0	U	10.0	4.19	F	ug/L		42	10 - 130	51	50
Ethyl methanesulfonate	2.0	U	10.0	3.99		ug/L		40	10 - 130	17	50
Ethyl Parathion	2.0	U	10.0	7.71		ug/L		77	10 - 130	4	50
Famphur	1.0	U	10.0	2.77	F	ug/L		28	10 - 130	92	50
Hexachlorophene	500	U *	50.0	500	U F	ug/L		0	10 - 130	NC	50
Hexachloropropene	1.0	U	10.0	2.05		ug/L		20	10 - 130	13	50
Isosafrole	1.0	U	10.0	4.85		ug/L		49	10 - 130	18	50
m-Dinitrobenzene	1.0	U	10.0	6.25		ug/L		63	10 - 130	14	50
Methapyrilene	200	U	50.0	16.9	J	ug/L		34	10 - 130	NC	50
3-Methylcholanthrene	1.0	U	10.0	1.69		ug/L		17	10 - 130	NC	50
Methyl methanesulfonate	2.0	U	10.0	3.87		ug/L		39	10 - 130	8	50
Methyl parathion	1.0	U	10.0	6.93		ug/L		69	10 - 130	3	50
1-Naphthalenamine	5.0	U	10.0	5.0	U F	ug/L		0	10 - 130	NC	50
2-Naphthalenamine	5.0	U	10.0	1.41	J	ug/L		14	10 - 130	NC	50
1,4-Naphthoquinone	1.0	U	10.0	7.47		ug/L		75	10 - 130	23	50
5-Nitro-o-toluidine	1.0	U	10.0	5.55		ug/L		55	10 - 130	36	50
4-Nitroquinoline-1-oxide	2.0	U	10.0	6.47		ug/L		65	10 - 130	38	50
N-Nitrosodiethylamine	1.0	U	10.0	5.64		ug/L		56	10 - 130	8	50
N-Nitrosodi-n-butylamine	1.0	U	10.0	5.29		ug/L		53	10 - 130	6	50
N-Nitrosomethylethylamine	2.0	U	10.0	5.97		ug/L		60	10 - 130	14	50
N-Nitrosomorpholine	1.0	U	10.0	5.89		ug/L		59	10 - 130	11	50
N-Nitrosopiperidine	1.0	U	10.0	5.55		ug/L		55	10 - 130	7	50
N-Nitrosopyrrolidine	1.0	U	10.0	5.22		ug/L		52	10 - 130	3	50
o,o',o''-Triethylphosphorothioate	1.0	U	10.0	5.27		ug/L		53	10 - 130	2	50
o-Toluidine	1.0	U	10.0	3.88	F	ug/L		39	10 - 130	96	50
p-Dimethylamino azobenzene	5.0	U	10.0	6.62		ug/L		66	10 - 130	5	50
Pentachlorobenzene	1.0	U	10.0	5.09		ug/L		51	10 - 130	15	50
Pentachloronitrobenzene	1.0	U	10.0	6.89		ug/L		69	10 - 130	4	50
Phenacetin	1.0	U	10.0	6.95		ug/L		70	10 - 130	6	50
Phorate	1.0	U	10.0	4.89		ug/L		49	10 - 130	18	50
2-Picoline	2.0	U	10.0	4.63		ug/L		46	10 - 130	40	50
p-Phenylene diamine	200	U	10.0	200	U	ug/L		NC	10 - 130	NC	50
Pronamide	1.0	U	10.0	5.96		ug/L		60	10 - 130	4	50
Safrole, Total	1.0	U	10.0	4.94		ug/L		49	10 - 130	6	50
2-sec-Butyl-4,6-dinitrophenol	2.0	U	10.0	7.92		ug/L		79	10 - 130	3	50
Sulfotepp	1.0	U	10.0	5.22		ug/L		52	10 - 130	4	50
1,2,4,5-Tetrachlorobenzene	1.0	U	10.0	3.80		ug/L		38	10 - 130	23	50
2,3,4,6-Tetrachlorophenol	1.0	U	10.0	6.04		ug/L		60	10 - 130	11	50
Thionazin	1.0	U	10.0	5.67		ug/L		57	10 - 130	1	50
1,3,5-Trinitrobenzene	1.0	U	10.0	11.0		ug/L		110	10 - 130	2	50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202342

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201675

Surrogate	MSD % Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	46		34 - 130
2-Fluorophenol	45		25 - 130
Nitrobenzene-d5	48		32 - 130
Phenol-d5	40		27 - 130
Terphenyl-d14	61		36 - 130
2,4,6-Tribromophenol	61		30 - 130

Lab Sample ID: MB 680-201990/2-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: MB 680-201990/2-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Acetophenone	0.216	J	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/05/11 14:45	05/18/11 19:07	1
Aniline	2.0	U	2.0	0.97	ug/L		05/05/11 14:45	05/18/11 19:07	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/05/11 14:45	05/18/11 19:07	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/05/11 14:45	05/18/11 19:07	1
Diallate	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,4-Dichlorobenzene	0.207	J	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/05/11 14:45	05/18/11 19:07	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201990/2-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: MB 680-201990/2-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	2.0	U	2.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/05/11 14:45	05/18/11 19:07	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/05/11 14:45	05/18/11 19:07	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/05/11 14:45	05/18/11 19:07	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/05/11 14:45	05/18/11 19:07	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/05/11 14:45	05/18/11 19:07	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Famphur	1.0	U	1.0	0.16	ug/L		05/05/11 14:45	05/18/11 19:07	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1
Hexachlorophene	500	U	500	25	ug/L		05/05/11 14:45	05/18/11 19:07	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Methapyrilene	200	U	200	1.3	ug/L		05/05/11 14:45	05/18/11 19:07	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/05/11 14:45	05/18/11 19:07	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/05/11 14:45	05/18/11 19:07	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/05/11 14:45	05/18/11 19:07	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/05/11 14:45	05/18/11 19:07	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201990/2-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: MB 680-201990/2-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
o,o',o''-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/05/11 14:45	05/18/11 19:07	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/05/11 14:45	05/18/11 19:07	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/05/11 14:45	05/18/11 19:07	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Phenol	1.0	U	1.0	0.13	ug/L		05/05/11 14:45	05/18/11 19:07	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Phorate	1.0	U	1.0	0.20	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/05/11 14:45	05/18/11 19:07	1
p-Phenylene diamine	200	U	200	16	ug/L		05/05/11 14:45	05/18/11 19:07	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/05/11 14:45	05/18/11 19:07	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/05/11 14:45	05/18/11 19:07	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/05/11 14:45	05/18/11 19:07	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/05/11 14:45	05/18/11 19:07	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/05/11 14:45	05/18/11 19:07	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*27.6*	*T A J*	*ug/L*		*4.31*		*05/05/11 14:45*	*05/18/11 19:07*	*1*
Unknown	*6.15*	*T J*	*ug/L*		*5.34*		*05/05/11 14:45*	*05/18/11 19:07*	*1*
Unknown	*4.75*	*T J*	*ug/L*		*12.48*		*05/05/11 14:45*	*05/18/11 19:07*	*1*
Unknown	*20.5*	*T J*	*ug/L*		*12.67*		*05/05/11 14:45*	*05/18/11 19:07*	*1*
Acetic acid, octadecyl ester	*3.10*	*T J N*	*ug/L*		*12.76*	*822-23-1*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
Octadecanoic acid, butyl ester	*14.4*	*T J N*	*ug/L*		*13.53*	*123-95-5*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
Tetracosane	*4.44*	*T J N*	*ug/L*		*13.57*	*646-31-1*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
Eicosane, 10-methyl-	*3.85*	*T J N*	*ug/L*		*13.98*	*54833-23-7*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
Eicosane, 10-methyl-	*4.85*	*T J N*	*ug/L*		*14.37*	*54833-23-7*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
Eicosane	*3.12*	*T J N*	*ug/L*		*14.73*	*112-95-8*	*05/05/11 14:45*	*05/18/11 19:07*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 130*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
2-Fluorophenol	*61*		*25 - 130*	*05/05/11 14:45*	*05/18/11 19:07*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-201990/2-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: MB 680-201990/2-A
Prep Type: Total/NA
Prep Batch: 201990

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*72*		*32 - 130*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
Phenol-d5	*64*		*27 - 130*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
Terphenyl-d14	*80*		*36 - 130*	*05/05/11 14:45*	*05/18/11 19:07*	*1*
2,4,6-Tribromophenol	*60*		*30 - 130*	*05/05/11 14:45*	*05/18/11 19:07*	*1*

Lab Sample ID: LCS 680-201990/3-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201990/3-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	2.00	1.42		ug/L		71	42 - 130
Acenaphthylene	2.00	1.49		ug/L		74	45 - 130
Acetophenone	10.0	7.09		ug/L		71	45 - 130
Aniline	10.0	6.05		ug/L		60	10 - 130
Anthracene	2.00	1.49		ug/L		75	58 - 130
Benzo[a]anthracene	2.00	1.51		ug/L		76	42 - 143
Benzo[a]pyrene	2.00	1.59		ug/L		79	45 - 151
Benzo[b]fluoranthene	2.00	1.40		ug/L		70	41 - 140
Benzo[g,h,i]perylene	2.00	1.59		ug/L		79	27 - 134
Benzo[k]fluoranthene	2.00	1.63		ug/L		82	45 - 140
Benzyl alcohol	10.0	6.65		ug/L		67	34 - 130
1,1'-Biphenyl	10.0	6.62		ug/L		66	50 - 130
Bis(2-chloroethoxy)methane	10.0	7.83		ug/L		78	47 - 130
Bis(2-chloroethyl)ether	10.0	6.98		ug/L		70	36 - 130
Bis(2-ethylhexyl) phthalate	10.0	8.36		ug/L		84	10 - 158
4-Bromophenyl phenyl ether	10.0	7.17		ug/L		72	44 - 130
Butyl benzyl phthalate	10.0	8.89		ug/L		89	60 - 130
4-Chloroaniline	10.0	6.78		ug/L		68	17 - 130
4-Chloro-3-methylphenol	10.0	7.69		ug/L		77	54 - 130
2-Chloronaphthalene	10.0	6.39		ug/L		64	48 - 130
2-Chlorophenol	10.0	7.43		ug/L		74	45 - 130
4-Chlorophenyl phenyl ether	10.0	7.08		ug/L		71	52 - 130
Chrysene	2.00	1.50		ug/L		75	40 - 142
Dibenz(a,h)anthracene	2.00	1.64		ug/L		82	38 - 130
Dibenzofuran	10.0	6.82		ug/L		68	56 - 130
1,2-Dichlorobenzene	10.0	5.59		ug/L		56	36 - 130
1,3-Dichlorobenzene	10.0	5.28		ug/L		53	31 - 130
1,4-Dichlorobenzene	10.0	6.00		ug/L		60	34 - 130
3,3'-Dichlorobenzidine	10.0	8.11	J	ug/L		81	10 - 158
2,4-Dichlorophenol	10.0	7.78		ug/L		78	58 - 130
Diethyl phthalate	10.0	7.57		ug/L		76	60 - 130
2,4-Dimethylphenol	10.0	5.18		ug/L		52	41 - 130
Dimethyl phthalate	10.0	7.54		ug/L		75	58 - 130
Di-n-butyl phthalate	10.0	8.24		ug/L		82	59 - 130
4,6-Dinitro-2-methylphenol	10.0	9.03		ug/L		90	10 - 182
2,4-Dinitrophenol	10.0	9.33	J	ug/L		93	10 - 200
2,4-Dinitrotoluene	10.0	7.57		ug/L		76	57 - 130
2,6-Dinitrotoluene	10.0	7.30		ug/L		73	53 - 130
Di-n-octyl phthalate	10.0	8.85		ug/L		89	19 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201990/3-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201990/3-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,4-Dioxane	10.0	4.67		ug/L		47	10 - 130
Fluoranthene	2.00	1.48		ug/L		74	46 - 136
Fluorene	2.00	1.50		ug/L		75	48 - 130
Hexachlorobenzene	10.0	6.35		ug/L		63	49 - 130
Hexachlorobutadiene	10.0	6.04		ug/L		60	36 - 130
Hexachlorocyclopentadiene	10.0	4.12		ug/L		41	16 - 130
Hexachloroethane	10.0	5.87		ug/L		59	32 - 130
Indeno[1,2,3-cd]pyrene	2.00	1.55		ug/L		78	12 - 130
Isophorone	10.0	6.53		ug/L		65	45 - 130
2-Methylnaphthalene	2.00	1.36		ug/L		68	51 - 130
2-Methylphenol	10.0	7.21		ug/L		72	49 - 130
3 & 4 Methylphenol	10.0	7.53		ug/L		75	55 - 130
Naphthalene	2.00	1.42		ug/L		71	35 - 130
2-Nitroaniline	10.0	7.01		ug/L		70	48 - 130
3-Nitroaniline	10.0	7.20		ug/L		72	18 - 147
4-Nitroaniline	10.0	9.06		ug/L		91	31 - 147
Nitrobenzene	10.0	6.32		ug/L		63	45 - 130
2-Nitrophenol	10.0	8.67		ug/L		87	49 - 130
4-Nitrophenol	10.0	6.90		ug/L		69	36 - 132
N-Nitrosodimethylamine	10.0	6.59		ug/L		66	29 - 130
N-Nitrosodi-n-propylamine	10.0	7.59		ug/L		76	42 - 130
N-Nitrosodiphenylamine	10.0	7.46		ug/L		75	38 - 130
2,2'-oxybis[1-chloropropane]	10.0	7.20		ug/L		72	39 - 130
Pentachlorophenol	10.0	7.06		ug/L		71	12 - 156
Phenanthrene	2.00	1.48		ug/L		74	45 - 134
Phenol	10.0	7.41		ug/L		74	44 - 130
Pyrene	2.00	1.51		ug/L		76	47 - 143
Pyridine	10.0	5.18		ug/L		52	10 - 130
1,2,4-Trichlorobenzene	10.0	5.76		ug/L		58	39 - 130
2,4,5-Trichlorophenol	10.0	8.19		ug/L		82	61 - 130
2,4,6-Trichlorophenol	10.0	7.93		ug/L		79	61 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*34 - 130*
2-Fluorophenol	*71*		*25 - 130*
Nitrobenzene-d5	*77*		*32 - 130*
Phenol-d5	*73*		*27 - 130*
Terphenyl-d14	*79*		*36 - 130*
2,4,6-Tribromophenol	*84*		*30 - 130*

Lab Sample ID: LCS 680-201990/5-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201990/5-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2-Acetylaminofluorene	10.0	10.1		ug/L		101	10 - 130
alpha,alpha-Dimethyl phenethylamine	10.0	3.96	J	ug/L		40	10 - 130
4-Aminobiphenyl	10.0	4.87	J	ug/L		49	10 - 130
Aramite, Total	10.0	8.69		ug/L		87	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201990/5-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201990/5-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diallate	10.0	7.42		ug/L		74	10 - 130
2,6-Dichlorophenol	10.0	7.44		ug/L		74	10 - 130
Dimethoate	10.0	6.26		ug/L		63	10 - 130
7,12-Dimethylbenz(a)anthracene	10.0	6.44		ug/L		64	10 - 130
3,3'-Dimethylbenzidine	25.0	30.0		ug/L		120	10 - 130
Disulfoton	10.0	6.49		ug/L		65	10 - 130
Ethyl methanesulfonate	10.0	9.52		ug/L		95	10 - 130
Ethyl Parathion	10.0	8.70		ug/L		87	10 - 130
Famphur	10.0	1.86		ug/L		19	10 - 130
Hexachlorophene	10.0	500	U *	ug/L		7	10 - 130
Hexachloropropene	10.0	3.70		ug/L		37	10 - 130
Isosafrole	10.0	7.01		ug/L		70	10 - 130
m-Dinitrobenzene	10.0	7.40		ug/L		74	10 - 130
Methapyrilene	10.0	27.1	J *	ug/L		271	10 - 130
3-Methylcholanthrene	10.0	6.77		ug/L		68	10 - 130
Methyl methanesulfonate	10.0	4.81		ug/L		48	10 - 130
Methyl parathion	10.0	7.27		ug/L		73	10 - 130
1-Naphthalenamine	10.0	5.48		ug/L		55	10 - 130
2-Naphthalenamine	10.0	5.52		ug/L		55	10 - 130
1,4-Naphthoquinone	10.0	3.08		ug/L		31	10 - 130
5-Nitro-o-toluidine	10.0	8.38		ug/L		84	10 - 130
4-Nitroquinoline-1-oxide	10.0	7.10		ug/L		71	10 - 130
N-Nitrosodiethylamine	10.0	7.90		ug/L		79	10 - 130
N-Nitrosodi-n-butylamine	10.0	7.36		ug/L		74	10 - 130
N-Nitrosomethylethylamine	10.0	7.48		ug/L		75	10 - 130
N-Nitrosomorpholine	10.0	8.00		ug/L		80	10 - 130
N-Nitrosopiperidine	10.0	7.49		ug/L		75	10 - 130
N-Nitrosopyrrolidine	10.0	7.65		ug/L		76	10 - 130
o,o',o''-Triethylphosphorothioate	10.0	6.73		ug/L		67	10 - 130
o-Toluidine	10.0	5.82		ug/L		58	10 - 130
p-Dimethylamino azobenzene	10.0	8.73		ug/L		87	10 - 130
Pentachlorobenzene	10.0	7.03		ug/L		70	10 - 130
Pentachloronitrobenzene	10.0	8.10		ug/L		81	10 - 130
Phenacetin	10.0	8.24		ug/L		82	10 - 130
Phorate	10.0	6.98		ug/L		70	10 - 130
2-Picoline	10.0	6.86		ug/L		69	10 - 130
p-Phenylene diamine	50.0	200	U	ug/L		16	10 - 130
Pronamide	10.0	8.38		ug/L		84	10 - 130
Safrole, Total	10.0	6.94		ug/L		69	10 - 130
2-sec-Butyl-4,6-dinitrophenol	10.0	11.1		ug/L		111	10 - 130
Sulfotepp	10.0	7.43		ug/L		74	10 - 130
1,2,4,5-Tetrachlorobenzene	10.0	6.50		ug/L		65	10 - 130
2,3,4,6-Tetrachlorophenol	10.0	8.17		ug/L		82	10 - 130
Thionazin	10.0	8.70		ug/L		87	10 - 130
1,3,5-Trinitrobenzene	10.0	7.70		ug/L		77	10 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*34 - 130*
2-Fluorophenol	*62*		*25 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-201990/5-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCS 680-201990/5-A
Prep Type: Total/NA
Prep Batch: 201990

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	62		32 - 130
Phenol-d5	63		27 - 130
Terphenyl-d14	72		36 - 130
2,4,6-Tribromophenol	81		30 - 130

Lab Sample ID: LCSD 680-201990/4-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCSD 680-201990/4-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	2.00	1.38		ug/L		69	42 - 130	3	50
Acenaphthylene	2.00	1.43		ug/L		71	45 - 130	4	50
Acetophenone	10.0	6.69		ug/L		67	45 - 130	6	50
Aniline	10.0	5.77		ug/L		58	10 - 130	5	50
Anthracene	2.00	1.46		ug/L		73	58 - 130	2	50
Benzo[a]anthracene	2.00	1.49		ug/L		74	42 - 143	2	50
Benzo[a]pyrene	2.00	1.58		ug/L		79	45 - 151	0	50
Benzo[b]fluoranthene	2.00	1.46		ug/L		73	41 - 140	4	50
Benzo[g,h,i]perylene	2.00	1.55		ug/L		78	27 - 134	2	50
Benzo[k]fluoranthene	2.00	1.52		ug/L		76	45 - 140	7	50
Benzyl alcohol	10.0	7.00		ug/L		70	34 - 130	5	50
1,1'-Biphenyl	10.0	6.60		ug/L		66	50 - 130	0	50
Bis(2-chloroethoxy)methane	10.0	7.60		ug/L		76	47 - 130	3	50
Bis(2-chloroethyl)ether	10.0	7.01		ug/L		70	36 - 130	1	50
Bis(2-ethylhexyl) phthalate	10.0	7.57		ug/L		76	10 - 158	10	50
4-Bromophenyl phenyl ether	10.0	7.36		ug/L		74	44 - 130	3	50
Butyl benzyl phthalate	10.0	8.31		ug/L		83	60 - 130	7	50
4-Chloroaniline	10.0	6.64		ug/L		66	17 - 130	2	50
4-Chloro-3-methylphenol	10.0	7.34		ug/L		73	54 - 130	5	50
2-Chloronaphthalene	10.0	6.37		ug/L		64	48 - 130	0	50
2-Chlorophenol	10.0	7.18		ug/L		72	45 - 130	4	50
4-Chlorophenyl phenyl ether	10.0	6.88		ug/L		69	52 - 130	3	50
Chrysene	2.00	1.41		ug/L		70	40 - 142	7	50
Dibenz(a,h)anthracene	2.00	1.60		ug/L		80	38 - 130	3	50
Dibenzofuran	10.0	6.64		ug/L		66	56 - 130	3	50
1,2-Dichlorobenzene	10.0	5.64		ug/L		56	36 - 130	1	50
1,3-Dichlorobenzene	10.0	5.37		ug/L		54	31 - 130	2	50
1,4-Dichlorobenzene	10.0	5.96		ug/L		60	34 - 130	1	50
3,3'-Dichlorobenzidine	10.0	9.17	J	ug/L		92	10 - 158	12	50
2,4-Dichlorophenol	10.0	7.45		ug/L		74	58 - 130	4	50
Diethyl phthalate	10.0	7.24		ug/L		72	60 - 130	4	50
2,4-Dimethylphenol	10.0	4.84		ug/L		48	41 - 130	7	50
Dimethyl phthalate	10.0	7.21		ug/L		72	58 - 130	5	50
Di-n-butyl phthalate	10.0	8.17		ug/L		82	59 - 130	1	50
4,6-Dinitro-2-methylphenol	10.0	8.02		ug/L		80	10 - 182	12	50
2,4-Dinitrophenol	10.0	6.50	J	ug/L		65	10 - 200	36	50
2,4-Dinitrotoluene	10.0	6.82		ug/L		68	57 - 130	10	50
2,6-Dinitrotoluene	10.0	7.15		ug/L		72	53 - 130	2	50
Di-n-octyl phthalate	10.0	7.69		ug/L		77	19 - 130	14	50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 680-201990/4-A
Matrix: Water
Analysis Batch: 203354

Client Sample ID: LCSD 680-201990/4-A
Prep Type: Total/NA
Prep Batch: 201990

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,4-Dioxane			10.0	4.26		ug/L		43	10 - 130	9	50
Fluoranthene			2.00	1.46		ug/L		73	46 - 136	1	50
Fluorene			2.00	1.42		ug/L		71	48 - 130	6	50
Hexachlorobenzene			10.0	6.40		ug/L		64	49 - 130	1	50
Hexachlorobutadiene			10.0	6.04		ug/L		60	36 - 130	0	50
Hexachlorocyclopentadiene			10.0	3.76		ug/L		38	16 - 130	9	50
Hexachloroethane			10.0	5.75		ug/L		57	32 - 130	2	50
Indeno[1,2,3-cd]pyrene			2.00	1.43		ug/L		72	12 - 130	8	50
Isophorone			10.0	6.31		ug/L		63	45 - 130	3	50
2-Methylnaphthalene			2.00	1.29		ug/L		65	51 - 130	5	50
2-Methylphenol			10.0	6.97		ug/L		70	49 - 130	3	50
3 & 4 Methylphenol			10.0	7.26		ug/L		73	55 - 130	4	50
Naphthalene			2.00	1.38		ug/L		69	35 - 130	3	50
2-Nitroaniline			10.0	6.69		ug/L		67	48 - 130	5	50
3-Nitroaniline			10.0	7.35		ug/L		74	18 - 147	2	50
4-Nitroaniline			10.0	8.72		ug/L		87	31 - 147	4	50
Nitrobenzene			10.0	6.11		ug/L		61	45 - 130	3	50
2-Nitrophenol			10.0	8.13		ug/L		81	49 - 130	6	50
4-Nitrophenol			10.0	5.90		ug/L		59	36 - 132	16	50
N-Nitrosodimethylamine			10.0	6.42		ug/L		64	29 - 130	3	50
N-Nitrosodi-n-propylamine			10.0	7.21		ug/L		72	42 - 130	5	50
N-Nitrosodiphenylamine			10.0	7.50		ug/L		75	38 - 130	0	50
2,2'-oxybis[1-chloropropane]			10.0	6.94		ug/L		69	39 - 130	4	50
Pentachlorophenol			10.0	3.70	J *	ug/L		37	12 - 156	62	50
Phenanthrene			2.00	1.48		ug/L		74	45 - 134	0	50
Phenol			10.0	7.05		ug/L		71	44 - 130	5	50
Pyrene			2.00	1.47		ug/L		73	47 - 143	3	50
Pyridine			10.0	5.44		ug/L		54	10 - 130	5	50
1,2,4-Trichlorobenzene			10.0	5.68		ug/L		57	39 - 130	1	50
2,4,5-Trichlorophenol			10.0	7.50		ug/L		75	61 - 130	9	50
2,4,6-Trichlorophenol			10.0	7.76		ug/L		78	61 - 130	2	50

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 130*
2-Fluorophenol	*66*		*25 - 130*
Nitrobenzene-d5	*71*		*32 - 130*
Phenol-d5	*69*		*27 - 130*
Terphenyl-d14	*74*		*36 - 130*
2,4,6-Tribromophenol	*78*		*30 - 130*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 680-201557/22
Matrix: Water
Analysis Batch: 201557

Client Sample ID: MB 680-201557/22
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			04/29/11 16:24	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 16:24	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: MB 680-201557/22
Matrix: Water
Analysis Batch: 201557

Client Sample ID: MB 680-201557/22
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	1000	U	1000	830	ug/L			04/29/11 16:24	1

Lab Sample ID: LCS 680-201557/20
Matrix: Water
Analysis Batch: 201557

Client Sample ID: LCS 680-201557/20
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	19800		ug/L		99	38 - 156
Isopropanol	20000	20300		ug/L		102	70 - 130
Methanol	20000	15500		ug/L		77	43 - 143

Lab Sample ID: LCSD 680-201557/21
Matrix: Water
Analysis Batch: 201557

Client Sample ID: LCSD 680-201557/21
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	19700		ug/L		98	38 - 156	0	50
Isopropanol	20000	20200		ug/L		101	70 - 130	1	50
Methanol	20000	15400		ug/L		77	43 - 143	0	50

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 201557

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	1000	U	20000	19300		ug/L		97	38 - 156
Isopropanol	1000	U	20000	19900		ug/L		100	70 - 130
Methanol	1000	U	20000	15600		ug/L		78	43 - 143

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 201557

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	1000	U	20000	18700		ug/L		94	38 - 156	3	50
Isopropanol	1000	U	20000	19300		ug/L		96	70 - 130	3	50
Methanol	1000	U	20000	14900		ug/L		75	43 - 143	4	50

Lab Sample ID: MB 680-202262/22
Matrix: Water
Analysis Batch: 202262

Client Sample ID: MB 680-202262/22
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			05/08/11 01:54	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 01:54	1
Methanol	1000	U	1000	830	ug/L			05/08/11 01:54	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCS 680-202262/20
Matrix: Water
Analysis Batch: 202262

Client Sample ID: LCS 680-202262/20
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	20500		ug/L		103	38 - 156
Isopropanol	20000	19900		ug/L		99	70 - 130
Methanol	20000	21100		ug/L		106	43 - 143

Lab Sample ID: LCSD 680-202262/21
Matrix: Water
Analysis Batch: 202262

Client Sample ID: LCSD 680-202262/21
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	20500		ug/L		102	38 - 156	0	50
Isopropanol	20000	19800		ug/L		99	70 - 130	0	50
Methanol	20000	21100		ug/L		106	43 - 143	0	50

Lab Sample ID: MB 680-202506/11
Matrix: Water
Analysis Batch: 202506

Client Sample ID: MB 680-202506/11
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			05/10/11 15:38	1
Isopropanol	1000	U	1000	300	ug/L			05/10/11 15:38	1
Methanol	1000	U	1000	830	ug/L			05/10/11 15:38	1

Lab Sample ID: LCS 680-202506/9
Matrix: Water
Analysis Batch: 202506

Client Sample ID: LCS 680-202506/9
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	24500		ug/L		123	38 - 156
Isopropanol	20000	24100		ug/L		120	70 - 130
Methanol	20000	26200		ug/L		131	43 - 143

Lab Sample ID: LCSD 680-202506/10
Matrix: Water
Analysis Batch: 202506

Client Sample ID: LCSD 680-202506/10
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	21700		ug/L		109	38 - 156	12	50
Isopropanol	20000	21400		ug/L		107	70 - 130	12	50
Methanol	20000	22900		ug/L		114	43 - 143	13	50

Lab Sample ID: MB 680-202840/25
Matrix: Water
Analysis Batch: 202840

Client Sample ID: MB 680-202840/25
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			05/12/11 20:00	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 20:00	1
Methanol	1000	U	1000	830	ug/L			05/12/11 20:00	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCS 680-202840/26
Matrix: Water
Analysis Batch: 202840

Client Sample ID: LCS 680-202840/26
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	21500		ug/L		108	38 - 156
Isopropanol	20000	20900		ug/L		105	70 - 130
Methanol	20000	21000		ug/L		105	43 - 143

Lab Sample ID: LCSD 680-202840/27
Matrix: Water
Analysis Batch: 202840

Client Sample ID: LCSD 680-202840/27
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	22100		ug/L		111	38 - 156	3	50
Isopropanol	20000	21500		ug/L		108	70 - 130	3	50
Methanol	20000	21500		ug/L		108	43 - 143	3	50

Lab Sample ID: MB 680-202859/6
Matrix: Water
Analysis Batch: 202859

Client Sample ID: MB 680-202859/6
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			05/13/11 09:19	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 09:19	1
Methanol	1000	U	1000	830	ug/L			05/13/11 09:19	1

Lab Sample ID: LCS 680-202859/4
Matrix: Water
Analysis Batch: 202859

Client Sample ID: LCS 680-202859/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	21900		ug/L		109	38 - 156
Isopropanol	20000	21300		ug/L		106	70 - 130
Methanol	20000	21200		ug/L		106	43 - 143

Lab Sample ID: LCSD 680-202859/5
Matrix: Water
Analysis Batch: 202859

Client Sample ID: LCSD 680-202859/5
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	19900		ug/L		100	38 - 156	9	50
Isopropanol	20000	19300		ug/L		96	70 - 130	10	50
Methanol	20000	19400		ug/L		97	43 - 143	9	50

Lab Sample ID: MB 680-204798/12
Matrix: Water
Analysis Batch: 204798

Client Sample ID: MB 680-204798/12
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 16:48	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCS 680-204798/2
Matrix: Water
Analysis Batch: 204798

Client Sample ID: LCS 680-204798/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	20000	19600		ug/L		98	70 - 130

Lab Sample ID: LCSD 680-204798/3
Matrix: Water
Analysis Batch: 204798

Client Sample ID: LCSD 680-204798/3
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	20000	20000		ug/L		100	70 - 130	2	50

Lab Sample ID: MB 680-204802/5
Matrix: Water
Analysis Batch: 204802

Client Sample ID: MB 680-204802/5
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 16:25	1

Lab Sample ID: LCS 680-204802/3
Matrix: Water
Analysis Batch: 204802

Client Sample ID: LCS 680-204802/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	20000	19600		ug/L		98	70 - 130

Lab Sample ID: LCSD 680-204802/18
Matrix: Water
Analysis Batch: 204802

Client Sample ID: LCSD 680-204802/18
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	20000	19300		ug/L		97	70 - 130	1	50

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 204802

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	1000	U	20000	18400		ug/L		92	70 - 130

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 204802

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	1000	U	20000	18100		ug/L		91	70 - 130	1	50

Lab Sample ID: MB 680-204805/24
Matrix: Water
Analysis Batch: 204805

Client Sample ID: MB 680-204805/24
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 19:55	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCS 680-204805/22
Matrix: Water
Analysis Batch: 204805

Client Sample ID: LCS 680-204805/22
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	20000	18500		ug/L		93	70 - 130

Lab Sample ID: LCSD 680-204805/23
Matrix: Water
Analysis Batch: 204805

Client Sample ID: LCSD 680-204805/23
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	20000	18300		ug/L		91	70 - 130	1	50

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-201782/1-A
Matrix: Water
Analysis Batch: 202087

Client Sample ID: MB 680-201782/1-A
Prep Type: Total/NA
Prep Batch: 201782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/03/11 17:33	05/05/11 20:21	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:21	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 20:21	1
Barium	5.0	U	5.0	1.4	ug/L		05/03/11 17:33	05/05/11 20:21	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 20:21	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 20:21	1
Calcium	500	U	500	170	ug/L		05/03/11 17:33	05/05/11 20:21	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 20:21	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 20:21	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 20:21	1
Iron	100	U	100	44	ug/L		05/03/11 17:33	05/05/11 20:21	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 20:21	1
Magnesium	250	U	250	100	ug/L		05/03/11 17:33	05/05/11 20:21	1
Manganese	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:21	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 20:21	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:21	1
Potassium	1000	U	1000	330	ug/L		05/03/11 17:33	05/05/11 20:21	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 20:21	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 20:21	1
Sodium	500	U	500	170	ug/L		05/03/11 17:33	05/05/11 20:21	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 20:21	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 20:21	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:33	05/05/11 20:21	1

Lab Sample ID: LCS 680-201782/2-A
Matrix: Water
Analysis Batch: 202087

Client Sample ID: LCS 680-201782/2-A
Prep Type: Total/NA
Prep Batch: 201782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5000	4970		ug/L		99	75 - 125
Antimony	50.0	50.8		ug/L		102	75 - 125
Arsenic	100	99.4		ug/L		99	75 - 125
Barium	100	96.8		ug/L		97	75 - 125
Beryllium	50.0	48.1		ug/L		96	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-201782/2-A
Matrix: Water
Analysis Batch: 202087

Client Sample ID: LCS 680-201782/2-A
Prep Type: Total/NA
Prep Batch: 201782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Cadmium	50.0	48.9		ug/L		98	75 - 125
Calcium	5000	5070		ug/L		101	75 - 125
Chromium	100	99.7		ug/L		100	75 - 125
Cobalt	50.0	48.2		ug/L		96	75 - 125
Copper	100	102		ug/L		102	75 - 125
Iron	5000	5120		ug/L		102	75 - 125
Lead	50.0	50.2		ug/L		100	75 - 125
Magnesium	5000	5140		ug/L		103	75 - 125
Manganese	500	526		ug/L		105	75 - 125
Mercury	5.00	4.41		ug/L		88	75 - 125
Nickel	100	103		ug/L		103	75 - 125
Potassium	5000	5210		ug/L		104	75 - 125
Selenium	100	98.2		ug/L		98	75 - 125
Silver	50.0	48.4		ug/L		97	75 - 125
Sodium	5000	5040		ug/L		101	75 - 125
Thallium	40.0	39.9		ug/L		100	75 - 125
Vanadium	100	98.8		ug/L		99	75 - 125
Zinc	100	103		ug/L		103	75 - 125

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202087

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	83	J	5000	5400		ug/L		106	75 - 125
Antimony	5.0	U	50.0	50.8		ug/L		102	75 - 125
Arsenic	2.5	U	100	104		ug/L		104	75 - 125
Barium	140		100	233		ug/L		94	75 - 125
Beryllium	0.50	U	50.0	46.2		ug/L		92	75 - 125
Cadmium	0.50	U	50.0	46.7		ug/L		93	75 - 125
Calcium	150000		5000	180000	4	ug/L		503	75 - 125
Chromium	5.0	U	100	106		ug/L		106	75 - 125
Cobalt	0.36	J	50.0	45.4		ug/L		90	75 - 125
Copper	1.1	J	100	104		ug/L		104	75 - 125
Iron	4200		5000	10100		ug/L		119	75 - 125
Lead	1.5	U	50.0	47.7		ug/L		95	75 - 125
Magnesium	11000		5000	18000	F	ug/L		136	75 - 125
Manganese	980		500	1480		ug/L		100	75 - 125
Mercury	0.80	U	5.00	4.29		ug/L		86	75 - 125
Nickel	2.5	J	100	105		ug/L		102	75 - 125
Potassium	6300		5000	12000		ug/L		116	75 - 125
Selenium	2.5	U	100	102		ug/L		102	75 - 125
Silver	1.0	U	50.0	45.6		ug/L		91	75 - 125
Sodium	49000		5000	58900	4	ug/L		198	75 - 125
Thallium	1.0	U	40.0	38.1		ug/L		95	75 - 125
Vanadium	10	U	100	104		ug/L		104	75 - 125
Zinc	20	U	100	98.6		ug/L		99	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202087

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 201782

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	83	J	5000	4980		ug/L		98	75 - 125	8	20
Antimony	5.0	U	50.0	50.7		ug/L		101	75 - 125	0	20
Arsenic	2.5	U	100	98.0		ug/L		98	75 - 125	6	20
Barium	140		100	228		ug/L		89	75 - 125	2	20
Beryllium	0.50	U	50.0	47.3		ug/L		95	75 - 125	2	20
Cadmium	0.50	U	50.0	47.6		ug/L		95	75 - 125	2	20
Calcium	150000		5000	158000	4	ug/L		65	75 - 125	13	20
Chromium	5.0	U	100	97.8		ug/L		98	75 - 125	8	20
Cobalt	0.36	J	50.0	46.1		ug/L		92	75 - 125	2	20
Copper	1.1	J	100	96.3		ug/L		96	75 - 125	7	20
Iron	4200		5000	9120		ug/L		99	75 - 125	10	20
Lead	1.5	U	50.0	47.8		ug/L		96	75 - 125	0	20
Magnesium	11000		5000	16000		ug/L		95	75 - 125	12	20
Manganese	980		500	1460		ug/L		97	75 - 125	1	20
Mercury	0.80	U	5.00	4.36		ug/L		87	75 - 125	2	20
Nickel	2.5	J	100	96.9		ug/L		94	75 - 125	8	20
Potassium	6300		5000	11200		ug/L		98	75 - 125	8	20
Selenium	2.5	U	100	96.3		ug/L		96	75 - 125	6	20
Silver	1.0	U	50.0	46.3		ug/L		93	75 - 125	2	20
Sodium	49000		5000	53100	4	ug/L		82	75 - 125	10	20
Thallium	1.0	U	40.0	38.1		ug/L		95	75 - 125	0	20
Vanadium	10	U	100	97.2		ug/L		97	75 - 125	7	20
Zinc	20	U	100	103		ug/L		103	75 - 125	5	20

Lab Sample ID: MB 680-201784/1-A
Matrix: Water
Analysis Batch: 202127

Client Sample ID: MB 680-201784/1-A
Prep Type: Total/NA
Prep Batch: 201784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/03/11 17:39	05/05/11 22:41	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/05/11 22:41	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:39	05/05/11 22:41	1
Barium	5.0	U	5.0	1.4	ug/L		05/03/11 17:39	05/05/11 22:41	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/05/11 22:41	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:39	05/05/11 22:41	1
Calcium	500	U	500	170	ug/L		05/03/11 17:39	05/05/11 22:41	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/05/11 22:41	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/03/11 17:39	05/05/11 22:41	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:39	05/05/11 22:41	1
Iron	100	U	100	44	ug/L		05/03/11 17:39	05/05/11 22:41	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:39	05/05/11 22:41	1
Magnesium	250	U	250	100	ug/L		05/03/11 17:39	05/05/11 22:41	1
Manganese	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/05/11 22:41	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/05/11 22:41	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/05/11 22:41	1
Potassium	1000	U	1000	330	ug/L		05/03/11 17:39	05/05/11 22:41	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/05/11 22:41	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/05/11 22:41	1
Sodium	500	U	500	170	ug/L		05/03/11 17:39	05/05/11 22:41	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/05/11 22:41	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-201784/1-A
Matrix: Water
Analysis Batch: 202127

Client Sample ID: MB 680-201784/1-A
Prep Type: Total/NA
Prep Batch: 201784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:39	05/05/11 22:41	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:39	05/05/11 22:41	1

Lab Sample ID: LCS 680-201784/2-A
Matrix: Water
Analysis Batch: 202127

Client Sample ID: LCS 680-201784/2-A
Prep Type: Total/NA
Prep Batch: 201784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5000	4870		ug/L		97	75 - 125
Antimony	50.0	51.3		ug/L		103	75 - 125
Arsenic	100	95.0		ug/L		95	75 - 125
Barium	100	97.1		ug/L		97	75 - 125
Beryllium	50.0	48.0		ug/L		96	75 - 125
Cadmium	50.0	48.5		ug/L		97	75 - 125
Calcium	5000	4950		ug/L		99	75 - 125
Chromium	100	94.2		ug/L		94	75 - 125
Cobalt	50.0	47.5		ug/L		95	75 - 125
Copper	100	96.6		ug/L		97	75 - 125
Iron	5000	5000		ug/L		100	75 - 125
Lead	50.0	48.6		ug/L		97	75 - 125
Magnesium	5000	5040		ug/L		101	75 - 125
Manganese	500	530		ug/L		106	75 - 125
Mercury	5.00	4.34		ug/L		87	75 - 125
Nickel	100	97.0		ug/L		97	75 - 125
Potassium	5000	5020		ug/L		100	75 - 125
Selenium	100	96.1		ug/L		96	75 - 125
Silver	50.0	48.2		ug/L		96	75 - 125
Sodium	5000	4870		ug/L		97	75 - 125
Thallium	40.0	38.5		ug/L		96	75 - 125
Vanadium	100	94.0		ug/L		94	75 - 125
Zinc	100	101		ug/L		101	75 - 125

Lab Sample ID: 680-67837-1 MS
Matrix: Water
Analysis Batch: 202127

Client Sample ID: RAB-MW2
Prep Type: Total/NA
Prep Batch: 201784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	470		5000	6480		ug/L		120	75 - 125
Antimony	5.0	U	50.0	52.6		ug/L		105	75 - 125
Arsenic	5.6		100	108		ug/L		102	75 - 125
Barium	46		100	151		ug/L		105	75 - 125
Beryllium	0.22	J	50.0	49.2		ug/L		98	75 - 125
Cadmium	0.23	J	50.0	47.4		ug/L		94	75 - 125
Calcium	85000		5000	98200	4	ug/L		265	75 - 125
Chromium	6.7		100	115		ug/L		108	75 - 125
Cobalt	120		50.0	173		ug/L		97	75 - 125
Copper	6.2		100	107		ug/L		100	75 - 125
Iron	96000		5000	110000	4	ug/L		285	75 - 125
Lead	0.68	J	50.0	47.5		ug/L		94	75 - 125
Magnesium	160000		5000	183000	4	ug/L		396	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-67837-1 MS
Matrix: Water
Analysis Batch: 202127

Client Sample ID: RAB-MW2
Prep Type: Total/NA
Prep Batch: 201784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.80	U	5.00	4.75		ug/L		95	75 - 125
Nickel	68		100	176		ug/L		107	75 - 125
Potassium	2200		5000	7600		ug/L		109	75 - 125
Selenium	2.5	U	100	102		ug/L		102	75 - 125
Silver	0.19	J	50.0	46.6		ug/L		93	75 - 125
Thallium	1.0	U	40.0	37.3		ug/L		93	75 - 125
Vanadium	3.9	J	100	110		ug/L		106	75 - 125
Zinc	25		100	115		ug/L		90	75 - 125

Lab Sample ID: 680-67837-1 MS
Matrix: Water
Analysis Batch: 202127

Client Sample ID: RAB-MW2
Prep Type: Total/NA
Prep Batch: 201784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Manganese	12000		500	12500	4	ug/L		116	75 - 125
Sodium	490000		5000	504000	4	ug/L		281	75 - 125

Lab Sample ID: 680-67837-1 MSD
Matrix: Water
Analysis Batch: 202127

Client Sample ID: RAB-MW2
Prep Type: Total/NA
Prep Batch: 201784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	470		5000	6030		ug/L		111	75 - 125	7	20
Antimony	5.0	U	50.0	52.2		ug/L		104	75 - 125	1	20
Arsenic	5.6		100	105		ug/L		99	75 - 125	3	20
Barium	46		100	158		ug/L		112	75 - 125	4	20
Beryllium	0.22	J	50.0	48.5		ug/L		96	75 - 125	2	20
Cadmium	0.23	J	50.0	47.2		ug/L		94	75 - 125	0	20
Calcium	85000		5000	91500	4	ug/L		130	75 - 125	7	20
Chromium	6.7		100	109		ug/L		102	75 - 125	5	20
Cobalt	120		50.0	172		ug/L		95	75 - 125	1	20
Copper	6.2		100	102		ug/L		96	75 - 125	4	20
Iron	96000		5000	102000	4	ug/L		112	75 - 125	8	20
Lead	0.68	J	50.0	46.5		ug/L		92	75 - 125	2	20
Magnesium	160000		5000	169000	4	ug/L		121	75 - 125	8	20
Mercury	0.80	U	5.00	4.77		ug/L		95	75 - 125	0	20
Nickel	68		100	168		ug/L		100	75 - 125	4	20
Potassium	2200		5000	7440		ug/L		105	75 - 125	2	20
Selenium	2.5	U	100	97.0		ug/L		97	75 - 125	5	20
Silver	0.19	J	50.0	46.4		ug/L		92	75 - 125	0	20
Thallium	1.0	U	40.0	37.0		ug/L		93	75 - 125	1	20
Vanadium	3.9	J	100	105		ug/L		101	75 - 125	5	20
Zinc	25		100	114		ug/L		89	75 - 125	1	20

Lab Sample ID: 680-67837-1 MSD
Matrix: Water
Analysis Batch: 202127

Client Sample ID: RAB-MW2
Prep Type: Total/NA
Prep Batch: 201784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Manganese	12000		500	12400	4	ug/L		113	75 - 125	0	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-67837-1 MSD
Matrix: Water
Analysis Batch: 202127

Client Sample ID: RAB-MW2
Prep Type: Total/NA
Prep Batch: 201784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sodium	490000		5000	495000	4	ug/L		108	75 - 125	2	20

Method: 325.2 - Chloride

Lab Sample ID: MB 680-202965/17
Matrix: Water
Analysis Batch: 202965

Client Sample ID: MB 680-202965/17
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/14/11 13:10	1

Lab Sample ID: LCS 680-202965/2
Matrix: Water
Analysis Batch: 202965

Client Sample ID: LCS 680-202965/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	50000	50500		ug/L		101	85 - 115

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202965

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	130000		50000	171000	F	ug/L		76	85 - 115

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202965

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	130000		50000	171000	F	ug/L		77	85 - 115	0	30

Lab Sample ID: MB 680-203198/33
Matrix: Water
Analysis Batch: 203198

Client Sample ID: MB 680-203198/33
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/17/11 11:29	1

Lab Sample ID: LCS 680-203198/2
Matrix: Water
Analysis Batch: 203198

Client Sample ID: LCS 680-203198/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	50000	51100		ug/L		102	85 - 115

Method: 325.2 - Chloride (Continued)

Lab Sample ID: 680-67837-1 MS
Matrix: Water
Analysis Batch: 203198

Client Sample ID: RAB-MW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	530000		50000	564000	4	ug/L		70	85 - 115

Lab Sample ID: 680-67837-1 MSD
Matrix: Water
Analysis Batch: 203198

Client Sample ID: RAB-MW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	530000		50000	553000	4	ug/L		48	85 - 115	2	30

Lab Sample ID: 680-67837-10 DU
Matrix: Water
Analysis Batch: 203198

Client Sample ID: MW-7U
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	2100000		1960000		ug/L		7	30

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-202674/1-A
Matrix: Water
Analysis Batch: 202820

Client Sample ID: MB 680-202674/1-A
Prep Type: Total/NA
Prep Batch: 202674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1

Lab Sample ID: LCS 680-202674/2-A
Matrix: Water
Analysis Batch: 202820

Client Sample ID: LCS 680-202674/2-A
Prep Type: Total/NA
Prep Batch: 202674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	1000	963		ug/L		96	75 - 125

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202881

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 202674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	340		1000	1290		ug/L		95	75 - 125

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202881

Client Sample ID: LF-5
Prep Type: Total/NA
Prep Batch: 202674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	340		1000	1190		ug/L		85	75 - 125	8	40

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: MB 680-203165/1-A — **Client Sample ID: MB 680-203165/1-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 203380 — **Prep Batch: 203165**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1

Lab Sample ID: LCS 680-203165/2-A — **Client Sample ID: LCS 680-203165/2-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 203380 — **Prep Batch: 203165**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	1000	906		ug/L		91	75 - 125

Lab Sample ID: 680-67837-1 DU — **Client Sample ID: RAB-MW2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 203380 — **Prep Batch: 203165**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Kjeldahl	1500		1650		ug/L		8	40

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-201550/3 — **Client Sample ID: MB 680-201550/3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 201550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:07	1
Nitrate Nitrite as N	50	U	50	10	ug/L			04/28/11 17:07	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:07	1

Lab Sample ID: LCS 680-201550/4 — **Client Sample ID: LCS 680-201550/4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 201550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	500	505		ug/L		101	
Nitrate Nitrite as N	1000	991		ug/L		99	90 - 110
Nitrite as N	500	486		ug/L		97	90 - 110

Lab Sample ID: 680-67794-1 MS — **Client Sample ID: LF-5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 201550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	50	U	500	536		ug/L		107	
Nitrate Nitrite as N	50		1000	1050		ug/L		105	90 - 110
Nitrite as N	50	U	500	518		ug/L		104	90 - 110

Lab Sample ID: 680-67794-1 MSD — **Client Sample ID: LF-5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 201550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrate as N	50	U	500	532		ug/L		106		1	

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 201550

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	50		1000	1050		ug/L		105	90 - 110	0	10
Nitrite as N	50	U	500	518		ug/L		104	90 - 110	0	10

Lab Sample ID: 680-67794-11 DU
Matrix: Water
Analysis Batch: 201550

Client Sample ID: WWL-3U
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	50	U	50	U	ug/L		NC	
Nitrate Nitrite as N	10		10.8	J	ug/L		4	10
Nitrite as N	50	U	50	U	ug/L		NC	10

Lab Sample ID: MB 680-201552/14
Matrix: Water
Analysis Batch: 201552

Client Sample ID: MB 680-201552/14
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:24	1
Nitrate Nitrite as N	50	U	50	10	ug/L			04/29/11 17:24	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:24	1

Lab Sample ID: LCS 680-201552/15
Matrix: Water
Analysis Batch: 201552

Client Sample ID: LCS 680-201552/15
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	500	477		ug/L		95	
Nitrate Nitrite as N	1000	959		ug/L		96	90 - 110
Nitrite as N	500	483		ug/L		97	90 - 110

Lab Sample ID: 680-67837-6 DU
Matrix: Water
Analysis Batch: 201552

Client Sample ID: NAT-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	13000		13300		ug/L		0.7	
Nitrate Nitrite as N	13000		13300		ug/L		0.9	10
Nitrite as N	1000	U	1000	U	ug/L		NC	10

Method: 375.4 - Sulfate

Lab Sample ID: MB 680-202914/1
Matrix: Water
Analysis Batch: 202914

Client Sample ID: MB 680-202914/1
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5000	U	5000	2500	ug/L			05/13/11 13:42	1

Method: 375.4 - Sulfate (Continued)

Lab Sample ID: LCS 680-202914/2
Matrix: Water
Analysis Batch: 202914

Client Sample ID: LCS 680-202914/2
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Sulfate			20000	21200		ug/L		106	75 - 125		

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202914

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Sulfate	180000		20000	193000	4	ug/L		82	75 - 125		

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202914

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sulfate	180000		20000	190000	4	ug/L		67	75 - 125	2	30

Lab Sample ID: MB 680-203200/1
Matrix: Water
Analysis Batch: 203200

Client Sample ID: MB 680-203200/1
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5000	U	5000	2500	ug/L			05/17/11 13:23	1

Lab Sample ID: LCS 680-203200/2
Matrix: Water
Analysis Batch: 203200

Client Sample ID: LCS 680-203200/2
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Sulfate			20000	18900		ug/L		94	75 - 125		

Lab Sample ID: 680-67837-1 MS
Matrix: Water
Analysis Batch: 203200

Client Sample ID: RAB-MW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Sulfate	1200000		20000	1210000	4	ug/L		92	75 - 125		

Lab Sample ID: 680-67837-1 MSD
Matrix: Water
Analysis Batch: 203200

Client Sample ID: RAB-MW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sulfate	1200000		20000	1190000	4	ug/L		22	75 - 125	1	30

Lab Sample ID: 680-67837-11 DU
Matrix: Water
Analysis Batch: 203200

Client Sample ID: MW-7L
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	32000		31400		ug/L		0.7	30

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-202912/12
Matrix: Water
Analysis Batch: 202912

Client Sample ID: MB 680-202912/12
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	500	ug/L			05/13/11 09:35	1

Lab Sample ID: LCS 680-202912/13
Matrix: Water
Analysis Batch: 202912

Client Sample ID: LCS 680-202912/13
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	20000	21200		ug/L		106	80 - 120

Lab Sample ID: 680-67794-1 MS
Matrix: Water
Analysis Batch: 202912

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	1300		20000	21200		ug/L		100	80 - 120

Lab Sample ID: 680-67794-1 MSD
Matrix: Water
Analysis Batch: 202912

Client Sample ID: LF-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1300		20000	21000		ug/L		98	80 - 120	1	25

Lab Sample ID: 680-67794-2 DU
Matrix: Water
Analysis Batch: 202912

Client Sample ID: LF-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	600	J	590	J	ug/L		2	25

Lab Sample ID: MB 680-203175/2
Matrix: Water
Analysis Batch: 203175

Client Sample ID: MB 680-203175/2
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	500	ug/L			05/16/11 15:01	1

Lab Sample ID: LCS 680-203175/3
Matrix: Water
Analysis Batch: 203175

Client Sample ID: LCS 680-203175/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	20000	20600		ug/L		103	80 - 120

Lab Sample ID: MB 680-203407/2
Matrix: Water
Analysis Batch: 203407

Client Sample ID: MB 680-203407/2
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 12:03	1

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-203407/3
Matrix: Water
Analysis Batch: 203407

Client Sample ID: LCS 680-203407/3
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Total Organic Carbon			20000	17000		ug/L		85	80 - 120		

Lab Sample ID: 680-67837-11 MS
Matrix: Water
Analysis Batch: 203407

Client Sample ID: MW-7L
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Total Organic Carbon	690	J	20000	19800		ug/L		95	80 - 120		

Lab Sample ID: 680-67837-11 MSD
Matrix: Water
Analysis Batch: 203407

Client Sample ID: MW-7L
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Total Organic Carbon	690	J	20000	18500		ug/L		89	80 - 120	6	25

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Analysis Batch: 201744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-201744/4	LCS 680-201744/4	Total/NA	Water	8260B	
680-67794-9	Equipment Blank	Total/NA	Water	8260B	
680-67794-1	LF-5	Total/NA	Water	8260B	
680-67794-2	LF-4	Total/NA	Water	8260B	
LCSD 680-201744/14	LCSD 680-201744/14	Total/NA	Water	8260B	
MB 680-201744/17	MB 680-201744/17	Total/NA	Water	8260B	

Analysis Batch: 201921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-201921/6	LCS 680-201921/6	Total/NA	Water	8260B	
LCSD 680-201921/7	LCSD 680-201921/7	Total/NA	Water	8260B	
MB 680-201921/9	MB 680-201921/9	Total/NA	Water	8260B	
680-67794-4	LF-2	Total/NA	Water	8260B	
680-67794-6	WWL-2	Total/NA	Water	8260B	
680-67794-3	LF-1	Total/NA	Water	8260B	
680-67794-5 - DL	LF-3	Total/NA	Water	8260B	
680-67794-7	WWL-1	Total/NA	Water	8260B	
680-67794-10	WWL-3L	Total/NA	Water	8260B	

Analysis Batch: 201923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-5	LF-3	Total/NA	Water	8260B	
680-67794-11	WWL-3U	Total/NA	Water	8260B	
LCS 680-201923/11	LCS 680-201923/11	Total/NA	Water	8260B	
MB 680-201923/12	MB 680-201923/12	Total/NA	Water	8260B	
LCSD 680-201923/15	LCSD 680-201923/15	Total/NA	Water	8260B	

Analysis Batch: 201948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-9	Field Blank	Total/NA	Water	8260B	
680-67837-12	Trip Blank 3	Total/NA	Water	8260B	
LCS 680-201948/10	LCS 680-201948/10	Total/NA	Water	8260B	
LCSD 680-201948/11	LCSD 680-201948/11	Total/NA	Water	8260B	
MB 680-201948/13	MB 680-201948/13	Total/NA	Water	8260B	
680-67837-2	RAB-MW4	Total/NA	Water	8260B	
680-67837-5	NAT-2	Total/NA	Water	8260B	
680-67837-7	RAB-MW3	Total/NA	Water	8260B	
680-67837-11	MW-7L	Total/NA	Water	8260B	
680-67794-8	Trip Blank 2	Total/NA	Water	8260B	
680-67794-1 MS	LF-5	Total/NA	Water	8260B	
680-67794-1 MSD	LF-5	Total/NA	Water	8260B	

Analysis Batch: 202067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-6	NAT-1	Total/NA	Water	8260B	
680-67837-8	MW-10	Total/NA	Water	8260B	
680-67837-7 - DL	RAB-MW3	Total/NA	Water	8260B	
LCS 680-202067/8	LCS 680-202067/8	Total/NA	Water	8260B	
LCSD 680-202067/9	LCSD 680-202067/9	Total/NA	Water	8260B	
MB 680-202067/11	MB 680-202067/11	Total/NA	Water	8260B	
680-67837-10	MW-7U	Total/NA	Water	8260B	
680-67837-1	RAB-MW2	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 202067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-3	Field Dup	Total/NA	Water	8260B	
680-67837-4	NAT-3	Total/NA	Water	8260B	

Analysis Batch: 202151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-1 - DL	RAB-MW2	Total/NA	Water	8260B	
LCS 680-202151/6	LCS 680-202151/6	Total/NA	Water	8260B	
MB 680-202151/7	MB 680-202151/7	Total/NA	Water	8260B	
LCSD 680-202151/8	LCSD 680-202151/8	Total/NA	Water	8260B	
680-67837-5 - DL	NAT-2	Total/NA	Water	8260B	
680-67837-3 - DL	Field Dup	Total/NA	Water	8260B	
680-67837-4 - DL	NAT-3	Total/NA	Water	8260B	

Analysis Batch: 203845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-203845/12	LCS 680-203845/12	Total/NA	Water	8260B	
LCSD 680-203845/13	LCSD 680-203845/13	Total/NA	Water	8260B	
MB 680-203845/15	MB 680-203845/15	Total/NA	Water	8260B	
680-67794-11 - RA	WWL-3U	Total/NA	Water	8260B	

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Prep Batch: 201675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-1	LF-5	Total/NA	Water	3520C	
680-67794-2	LF-4	Total/NA	Water	3520C	
680-67794-3	LF-1	Total/NA	Water	3520C	
680-67794-5	LF-3	Total/NA	Water	3520C	
680-67794-9	Equipment Blank	Total/NA	Water	3520C	
680-67794-10	WWL-3L	Total/NA	Water	3520C	
680-67794-11	WWL-3U	Total/NA	Water	3520C	
680-67837-3	Field Dup	Total/NA	Water	3520C	
680-67837-4	NAT-3	Total/NA	Water	3520C	
680-67837-5	NAT-2	Total/NA	Water	3520C	
680-67837-8	MW-10	Total/NA	Water	3520C	
680-67837-10	MW-7U	Total/NA	Water	3520C	
680-67837-11	MW-7L	Total/NA	Water	3520C	
MB 680-201675/18-A	MB 680-201675/18-A	Total/NA	Water	3520C	
LCS 680-201675/19-A	LCS 680-201675/19-A	Total/NA	Water	3520C	
680-67794-1 MS	LF-5	Total/NA	Water	3520C	
680-67794-1 MSD	LF-5	Total/NA	Water	3520C	
LCS 680-201675/22-A	LCS 680-201675/22-A	Total/NA	Water	3520C	
680-67794-1 MS	LF-5	Total/NA	Water	3520C	
680-67794-1 MSD	LF-5	Total/NA	Water	3520C	

Prep Batch: 201990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-9	Field Blank	Total/NA	Water	3520C	
MB 680-201990/2-A	MB 680-201990/2-A	Total/NA	Water	3520C	
LCS 680-201990/3-A	LCS 680-201990/3-A	Total/NA	Water	3520C	
LCSD 680-201990/4-A	LCSD 680-201990/4-A	Total/NA	Water	3520C	
LCS 680-201990/5-A	LCS 680-201990/5-A	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Analysis Batch: 202264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201675/18-A	MB 680-201675/18-A	Total/NA	Water	8270C LL	201675

Analysis Batch: 202342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-201675/19-A	LCS 680-201675/19-A	Total/NA	Water	8270C LL	201675
680-67794-1	LF-5	Total/NA	Water	8270C LL	201675
680-67794-2	LF-4	Total/NA	Water	8270C LL	201675
680-67794-3	LF-1	Total/NA	Water	8270C LL	201675
680-67794-5	LF-3	Total/NA	Water	8270C LL	201675
680-67794-9	Equipment Blank	Total/NA	Water	8270C LL	201675
680-67794-10	WWL-3L	Total/NA	Water	8270C LL	201675
680-67794-11	WWL-3U	Total/NA	Water	8270C LL	201675
680-67794-1 MS	LF-5	Total/NA	Water	8270C LL	201675
680-67794-1 MSD	LF-5	Total/NA	Water	8270C LL	201675
680-67794-1 MS	LF-5	Total/NA	Water	8270C LL	201675
680-67794-1 MSD	LF-5	Total/NA	Water	8270C LL	201675
680-67837-3	Field Dup	Total/NA	Water	8270C LL	201675
680-67837-4	NAT-3	Total/NA	Water	8270C LL	201675

Analysis Batch: 203354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-201675/22-A	LCS 680-201675/22-A	Total/NA	Water	8270C LL	201675
680-67837-5	NAT-2	Total/NA	Water	8270C LL	201675
680-67837-8	MW-10	Total/NA	Water	8270C LL	201675
680-67837-10	MW-7U	Total/NA	Water	8270C LL	201675
680-67837-11	MW-7L	Total/NA	Water	8270C LL	201675
680-67837-9	Field Blank	Total/NA	Water	8270C LL	201990
MB 680-201990/2-A	MB 680-201990/2-A	Total/NA	Water	8270C LL	201990
LCS 680-201990/3-A	LCS 680-201990/3-A	Total/NA	Water	8270C LL	201990
LCSD 680-201990/4-A	LCSD 680-201990/4-A	Total/NA	Water	8270C LL	201990
LCS 680-201990/5-A	LCS 680-201990/5-A	Total/NA	Water	8270C LL	201990

GC VOA

Analysis Batch: 201557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-1	LF-5	Total/NA	Water	8015B	
680-67794-1 MS	LF-5	Total/NA	Water	8015B	
680-67794-1 MSD	LF-5	Total/NA	Water	8015B	
LCS 680-201557/20	LCS 680-201557/20	Total/NA	Water	8015B	
LCSD 680-201557/21	LCSD 680-201557/21	Total/NA	Water	8015B	
MB 680-201557/22	MB 680-201557/22	Total/NA	Water	8015B	

Analysis Batch: 202262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-3	LF-1	Total/NA	Water	8015B	
680-67794-4	LF-2	Total/NA	Water	8015B	
680-67794-5	LF-3	Total/NA	Water	8015B	
680-67794-6	WWL-2	Total/NA	Water	8015B	
680-67794-7	WWL-1	Total/NA	Water	8015B	
680-67794-9	Equipment Blank	Total/NA	Water	8015B	
680-67794-10	WWL-3L	Total/NA	Water	8015B	

GC VOA (Continued)

Analysis Batch: 202262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-11	WWL-3U	Total/NA	Water	8015B	
680-67837-1	RAB-MW2	Total/NA	Water	8015B	
680-67837-2	RAB-MW4	Total/NA	Water	8015B	
LCS 680-202262/20	LCS 680-202262/20	Total/NA	Water	8015B	
LCSD 680-202262/21	LCSD 680-202262/21	Total/NA	Water	8015B	
MB 680-202262/22	MB 680-202262/22	Total/NA	Water	8015B	

Analysis Batch: 202506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-2	LF-4	Total/NA	Water	8015B	
LCS 680-202506/9	LCS 680-202506/9	Total/NA	Water	8015B	
LCSD 680-202506/10	LCSD 680-202506/10	Total/NA	Water	8015B	
MB 680-202506/11	MB 680-202506/11	Total/NA	Water	8015B	

Analysis Batch: 202840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-3	Field Dup	Total/NA	Water	8015B	
680-67837-4	NAT-3	Total/NA	Water	8015B	
680-67837-5	NAT-2	Total/NA	Water	8015B	
680-67837-6	NAT-1	Total/NA	Water	8015B	
680-67837-7	RAB-MW3	Total/NA	Water	8015B	
680-67837-8	MW-10	Total/NA	Water	8015B	
680-67837-9	Field Blank	Total/NA	Water	8015B	
680-67837-10	MW-7U	Total/NA	Water	8015B	
680-67837-11	MW-7L	Total/NA	Water	8015B	
MB 680-202840/25	MB 680-202840/25	Total/NA	Water	8015B	
LCS 680-202840/26	LCS 680-202840/26	Total/NA	Water	8015B	
LCSD 680-202840/27	LCSD 680-202840/27	Total/NA	Water	8015B	

Analysis Batch: 202859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202859/4	LCS 680-202859/4	Total/NA	Water	8015B	
LCSD 680-202859/5	LCSD 680-202859/5	Total/NA	Water	8015B	
MB 680-202859/6	MB 680-202859/6	Total/NA	Water	8015B	
680-67837-5 - DL	NAT-2	Total/NA	Water	8015B	

Analysis Batch: 204798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-204798/2	LCS 680-204798/2	Total/NA	Water	8015B	
LCSD 680-204798/3	LCSD 680-204798/3	Total/NA	Water	8015B	
680-67794-1	LF-5	Total/NA	Water	8015B	
MB 680-204798/12	MB 680-204798/12	Total/NA	Water	8015B	

Analysis Batch: 204802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-1 MS	LF-5	Total/NA	Water	8015B	
LCS 680-204802/3	LCS 680-204802/3	Total/NA	Water	8015B	
MB 680-204802/5	MB 680-204802/5	Total/NA	Water	8015B	
680-67794-1 MSD	LF-5	Total/NA	Water	8015B	
680-67794-2	LF-4	Total/NA	Water	8015B	
680-67794-3	LF-1	Total/NA	Water	8015B	
680-67794-4	LF-2	Total/NA	Water	8015B	

GC VOA (Continued)

Analysis Batch: 204802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-5	LF-3	Total/NA	Water	8015B	
680-67794-6	WWL-2	Total/NA	Water	8015B	
680-67794-7	WWL-1	Total/NA	Water	8015B	
680-67794-9	Equipment Blank	Total/NA	Water	8015B	
680-67794-10	WWL-3L	Total/NA	Water	8015B	
680-67794-11	WWL-3U	Total/NA	Water	8015B	
680-67837-1	RAB-MW2	Total/NA	Water	8015B	
680-67837-2	RAB-MW4	Total/NA	Water	8015B	
LCSD 680-204802/18	LCSD 680-204802/18	Total/NA	Water	8015B	

Analysis Batch: 204805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-3	Field Dup	Total/NA	Water	8015B	
680-67837-4	NAT-3	Total/NA	Water	8015B	
680-67837-5	NAT-2	Total/NA	Water	8015B	
680-67837-6	NAT-1	Total/NA	Water	8015B	
680-67837-7	RAB-MW3	Total/NA	Water	8015B	
680-67837-8	MW-10	Total/NA	Water	8015B	
680-67837-9	Field Blank	Total/NA	Water	8015B	
680-67837-10	MW-7U	Total/NA	Water	8015B	
680-67837-11	MW-7L	Total/NA	Water	8015B	
LCS 680-204805/22	LCS 680-204805/22	Total/NA	Water	8015B	
LCSD 680-204805/23	LCSD 680-204805/23	Total/NA	Water	8015B	
MB 680-204805/24	MB 680-204805/24	Total/NA	Water	8015B	

Metals

Prep Batch: 201782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201782/1-A	MB 680-201782/1-A	Total/NA	Water	3010A	
LCS 680-201782/2-A	LCS 680-201782/2-A	Total/NA	Water	3010A	
680-67794-1	LF-5	Total/NA	Water	3010A	
680-67794-1 MS	LF-5	Total/NA	Water	3010A	
680-67794-1 MSD	LF-5	Total/NA	Water	3010A	
680-67794-2	LF-4	Total/NA	Water	3010A	
680-67794-3	LF-1	Total/NA	Water	3010A	
680-67794-4	LF-2	Total/NA	Water	3010A	
680-67794-5	LF-3	Total/NA	Water	3010A	
680-67794-6	WWL-2	Total/NA	Water	3010A	
680-67794-6	WWL-2	Total/NA	Water	3010A	
680-67794-7	WWL-1	Total/NA	Water	3010A	
680-67794-7	WWL-1	Total/NA	Water	3010A	
680-67794-9	Equipment Blank	Total/NA	Water	3010A	
680-67794-10	WWL-3L	Total/NA	Water	3010A	
680-67794-10	WWL-3L	Total/NA	Water	3010A	
680-67794-11	WWL-3U	Total/NA	Water	3010A	

Prep Batch: 201784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201784/1-A	MB 680-201784/1-A	Total/NA	Water	3010A	
LCS 680-201784/2-A	LCS 680-201784/2-A	Total/NA	Water	3010A	
680-67837-1	RAB-MW2	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 201784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-1	RAB-MW2	Total/NA	Water	3010A	
680-67837-1 MS	RAB-MW2	Total/NA	Water	3010A	
680-67837-1 MS	RAB-MW2	Total/NA	Water	3010A	
680-67837-1 MSD	RAB-MW2	Total/NA	Water	3010A	
680-67837-1 MSD	RAB-MW2	Total/NA	Water	3010A	
680-67837-2	RAB-MW4	Total/NA	Water	3010A	
680-67837-3	Field Dup	Total/NA	Water	3010A	
680-67837-3	Field Dup	Total/NA	Water	3010A	
680-67837-4	NAT-3	Total/NA	Water	3010A	
680-67837-4	NAT-3	Total/NA	Water	3010A	
680-67837-5	NAT-2	Total/NA	Water	3010A	
680-67837-6	NAT-1	Total/NA	Water	3010A	
680-67837-7	RAB-MW3	Total/NA	Water	3010A	
680-67837-8	MW-10	Total/NA	Water	3010A	
680-67837-9	Field Blank	Total/NA	Water	3010A	
680-67837-10	MW-7U	Total/NA	Water	3010A	
680-67837-10	MW-7U	Total/NA	Water	3010A	
680-67837-10	MW-7U	Total/NA	Water	3010A	
680-67837-11	MW-7L	Total/NA	Water	3010A	

Analysis Batch: 202087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201782/1-A	MB 680-201782/1-A	Total/NA	Water	6020	201782
LCS 680-201782/2-A	LCS 680-201782/2-A	Total/NA	Water	6020	201782
680-67794-1	LF-5	Total/NA	Water	6020	201782
680-67794-1 MS	LF-5	Total/NA	Water	6020	201782
680-67794-1 MSD	LF-5	Total/NA	Water	6020	201782
680-67794-2	LF-4	Total/NA	Water	6020	201782
680-67794-3	LF-1	Total/NA	Water	6020	201782
680-67794-4	LF-2	Total/NA	Water	6020	201782
680-67794-5	LF-3	Total/NA	Water	6020	201782
680-67794-6	WWL-2	Total/NA	Water	6020	201782
680-67794-7	WWL-1	Total/NA	Water	6020	201782
680-67794-9	Equipment Blank	Total/NA	Water	6020	201782
680-67794-10	WWL-3L	Total/NA	Water	6020	201782
680-67794-11	WWL-3U	Total/NA	Water	6020	201782
680-67794-6	WWL-2	Total/NA	Water	6020	201782
680-67794-7	WWL-1	Total/NA	Water	6020	201782
680-67794-10	WWL-3L	Total/NA	Water	6020	201782

Analysis Batch: 202127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201784/1-A	MB 680-201784/1-A	Total/NA	Water	6020	201784
LCS 680-201784/2-A	LCS 680-201784/2-A	Total/NA	Water	6020	201784
680-67837-2	RAB-MW4	Total/NA	Water	6020	201784
680-67837-6	NAT-1	Total/NA	Water	6020	201784
680-67837-7	RAB-MW3	Total/NA	Water	6020	201784
680-67837-8	MW-10	Total/NA	Water	6020	201784
680-67837-9	Field Blank	Total/NA	Water	6020	201784
680-67837-11	MW-7L	Total/NA	Water	6020	201784
680-67837-1	RAB-MW2	Total/NA	Water	6020	201784
680-67837-1 MS	RAB-MW2	Total/NA	Water	6020	201784

Metals (Continued)

Analysis Batch: 202127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-1 MSD	RAB-MW2	Total/NA	Water	6020	201784
680-67837-3	Field Dup	Total/NA	Water	6020	201784
680-67837-4	NAT-3	Total/NA	Water	6020	201784
680-67837-5	NAT-2	Total/NA	Water	6020	201784
680-67837-10	MW-7U	Total/NA	Water	6020	201784
680-67837-1	RAB-MW2	Total/NA	Water	6020	201784
680-67837-1 MS	RAB-MW2	Total/NA	Water	6020	201784
680-67837-1 MSD	RAB-MW2	Total/NA	Water	6020	201784
680-67837-3	Field Dup	Total/NA	Water	6020	201784
680-67837-4	NAT-3	Total/NA	Water	6020	201784
680-67837-10	MW-7U	Total/NA	Water	6020	201784
680-67837-10	MW-7U	Total/NA	Water	6020	201784

General Chemistry

Analysis Batch: 201550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201550/3	MB 680-201550/3	Total/NA	Water	353.2	
LCS 680-201550/4	LCS 680-201550/4	Total/NA	Water	353.2	
680-67794-1	LF-5	Total/NA	Water	353.2	
680-67794-1 MS	LF-5	Total/NA	Water	353.2	
680-67794-1 MSD	LF-5	Total/NA	Water	353.2	
680-67794-2	LF-4	Total/NA	Water	353.2	
680-67794-3	LF-1	Total/NA	Water	353.2	
680-67794-4	LF-2	Total/NA	Water	353.2	
680-67794-5	LF-3	Total/NA	Water	353.2	
680-67794-6	WWL-2	Total/NA	Water	353.2	
680-67794-7	WWL-1	Total/NA	Water	353.2	
680-67794-9	Equipment Blank	Total/NA	Water	353.2	
680-67794-10	WWL-3L	Total/NA	Water	353.2	
680-67794-11	WWL-3U	Total/NA	Water	353.2	
680-67794-11 DU	WWL-3U	Total/NA	Water	353.2	

Analysis Batch: 201552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201552/14	MB 680-201552/14	Total/NA	Water	353.2	
LCS 680-201552/15	LCS 680-201552/15	Total/NA	Water	353.2	
680-67837-1	RAB-MW2	Total/NA	Water	353.2	
680-67837-2	RAB-MW4	Total/NA	Water	353.2	
680-67837-4	NAT-3	Total/NA	Water	353.2	
680-67837-5	NAT-2	Total/NA	Water	353.2	
680-67837-7	RAB-MW3	Total/NA	Water	353.2	
680-67837-9	Field Blank	Total/NA	Water	353.2	
680-67837-10	MW-7U	Total/NA	Water	353.2	
680-67837-11	MW-7L	Total/NA	Water	353.2	
680-67837-3	Field Dup	Total/NA	Water	353.2	
680-67837-6	NAT-1	Total/NA	Water	353.2	
680-67837-6 DU	NAT-1	Total/NA	Water	353.2	
680-67837-8	MW-10	Total/NA	Water	353.2	

General Chemistry (Continued)

Prep Batch: 202674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202674/1-A	MB 680-202674/1-A	Total/NA	Water	351.2	
LCS 680-202674/2-A	LCS 680-202674/2-A	Total/NA	Water	351.2	
680-67794-1	LF-5	Total/NA	Water	351.2	
680-67794-1 MS	LF-5	Total/NA	Water	351.2	
680-67794-1 MSD	LF-5	Total/NA	Water	351.2	
680-67794-2	LF-4	Total/NA	Water	351.2	
680-67794-3	LF-1	Total/NA	Water	351.2	
680-67794-4	LF-2	Total/NA	Water	351.2	
680-67794-5	LF-3	Total/NA	Water	351.2	
680-67794-6	WWL-2	Total/NA	Water	351.2	
680-67794-7	WWL-1	Total/NA	Water	351.2	
680-67794-9	Equipment Blank	Total/NA	Water	351.2	
680-67794-10	WWL-3L	Total/NA	Water	351.2	
680-67794-11	WWL-3U	Total/NA	Water	351.2	

Analysis Batch: 202820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202674/1-A	MB 680-202674/1-A	Total/NA	Water	351.2	202674
LCS 680-202674/2-A	LCS 680-202674/2-A	Total/NA	Water	351.2	202674
680-67794-2	LF-4	Total/NA	Water	351.2	202674
680-67794-3	LF-1	Total/NA	Water	351.2	202674
680-67794-4	LF-2	Total/NA	Water	351.2	202674
680-67794-5	LF-3	Total/NA	Water	351.2	202674
680-67794-6	WWL-2	Total/NA	Water	351.2	202674
680-67794-7	WWL-1	Total/NA	Water	351.2	202674
680-67794-9	Equipment Blank	Total/NA	Water	351.2	202674
680-67794-10	WWL-3L	Total/NA	Water	351.2	202674
680-67794-11	WWL-3U	Total/NA	Water	351.2	202674

Analysis Batch: 202881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67794-1	LF-5	Total/NA	Water	351.2	202674
680-67794-1 MSD	LF-5	Total/NA	Water	351.2	202674
680-67794-1 MS	LF-5	Total/NA	Water	351.2	202674

Analysis Batch: 202912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202912/12	MB 680-202912/12	Total/NA	Water	9060	
LCS 680-202912/13	LCS 680-202912/13	Total/NA	Water	9060	
680-67794-1	LF-5	Total/NA	Water	9060	
680-67794-1 MS	LF-5	Total/NA	Water	9060	
680-67794-1 MSD	LF-5	Total/NA	Water	9060	
680-67794-2	LF-4	Total/NA	Water	9060	
680-67794-2 DU	LF-4	Total/NA	Water	9060	
680-67794-3	LF-1	Total/NA	Water	9060	
680-67794-4	LF-2	Total/NA	Water	9060	
680-67794-5	LF-3	Total/NA	Water	9060	
680-67794-6	WWL-2	Total/NA	Water	9060	
680-67794-9	Equipment Blank	Total/NA	Water	9060	
680-67794-10	WWL-3L	Total/NA	Water	9060	
680-67794-11	WWL-3U	Total/NA	Water	9060	

General Chemistry (Continued)

Analysis Batch: 202914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202914/1	MB 680-202914/1	Total/NA	Water	375.4	
LCS 680-202914/2	LCS 680-202914/2	Total/NA	Water	375.4	
680-67794-9	Equipment Blank	Total/NA	Water	375.4	
680-67794-2	LF-4	Total/NA	Water	375.4	
680-67794-1	LF-5	Total/NA	Water	375.4	
680-67794-1 MS	LF-5	Total/NA	Water	375.4	
680-67794-1 MSD	LF-5	Total/NA	Water	375.4	
680-67794-3	LF-1	Total/NA	Water	375.4	
680-67794-7	WWL-1	Total/NA	Water	375.4	
680-67794-11	WWL-3U	Total/NA	Water	375.4	
680-67794-4	LF-2	Total/NA	Water	375.4	
680-67794-6	WWL-2	Total/NA	Water	375.4	
680-67794-5	LF-3	Total/NA	Water	375.4	
680-67794-10	WWL-3L	Total/NA	Water	375.4	

Analysis Batch: 202965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202965/2	LCS 680-202965/2	Total/NA	Water	325.2	
680-67794-1	LF-5	Total/NA	Water	325.2	
680-67794-1 MS	LF-5	Total/NA	Water	325.2	
680-67794-1 MSD	LF-5	Total/NA	Water	325.2	
680-67794-3	LF-1	Total/NA	Water	325.2	
680-67794-9	Equipment Blank	Total/NA	Water	325.2	
680-67794-2	LF-4	Total/NA	Water	325.2	
680-67794-4	LF-2	Total/NA	Water	325.2	
680-67794-5	LF-3	Total/NA	Water	325.2	
680-67794-6	WWL-2	Total/NA	Water	325.2	
680-67794-7	WWL-1	Total/NA	Water	325.2	
680-67794-10	WWL-3L	Total/NA	Water	325.2	
680-67794-11	WWL-3U	Total/NA	Water	325.2	
MB 680-202965/17	MB 680-202965/17	Total/NA	Water	325.2	

Prep Batch: 203165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203165/1-A	MB 680-203165/1-A	Total/NA	Water	351.2	
LCS 680-203165/2-A	LCS 680-203165/2-A	Total/NA	Water	351.2	
680-67837-1	RAB-MW2	Total/NA	Water	351.2	
680-67837-1 DU	RAB-MW2	Total/NA	Water	351.2	
680-67837-2	RAB-MW4	Total/NA	Water	351.2	
680-67837-3	Field Dup	Total/NA	Water	351.2	
680-67837-4	NAT-3	Total/NA	Water	351.2	
680-67837-5	NAT-2	Total/NA	Water	351.2	
680-67837-6	NAT-1	Total/NA	Water	351.2	
680-67837-7	RAB-MW3	Total/NA	Water	351.2	
680-67837-8	MW-10	Total/NA	Water	351.2	
680-67837-9	Field Blank	Total/NA	Water	351.2	
680-67837-10	MW-7U	Total/NA	Water	351.2	
680-67837-11	MW-7L	Total/NA	Water	351.2	

Analysis Batch: 203175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203175/2	MB 680-203175/2	Total/NA	Water	9060	

General Chemistry (Continued)

Analysis Batch: 203175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-203175/3	LCS 680-203175/3	Total/NA	Water	9060	
680-67794-7	WWL-1	Total/NA	Water	9060	

Analysis Batch: 203198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-203198/2	LCS 680-203198/2	Total/NA	Water	325.2	
680-67837-6	NAT-1	Total/NA	Water	325.2	
680-67837-7	RAB-MW3	Total/NA	Water	325.2	
680-67837-11	MW-7L	Total/NA	Water	325.2	
680-67837-4	NAT-3	Total/NA	Water	325.2	
680-67837-8	MW-10	Total/NA	Water	325.2	
680-67837-2	RAB-MW4	Total/NA	Water	325.2	
680-67837-3	Field Dup	Total/NA	Water	325.2	
680-67837-5	NAT-2	Total/NA	Water	325.2	
MB 680-203198/33	MB 680-203198/33	Total/NA	Water	325.2	
680-67837-9	Field Blank	Total/NA	Water	325.2	
680-67837-1	RAB-MW2	Total/NA	Water	325.2	
680-67837-1 MS	RAB-MW2	Total/NA	Water	325.2	
680-67837-1 MSD	RAB-MW2	Total/NA	Water	325.2	
680-67837-10	MW-7U	Total/NA	Water	325.2	
680-67837-10 DU	MW-7U	Total/NA	Water	325.2	

Analysis Batch: 203200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203200/1	MB 680-203200/1	Total/NA	Water	375.4	
LCS 680-203200/2	LCS 680-203200/2	Total/NA	Water	375.4	
680-67837-3	Field Dup	Total/NA	Water	375.4	
680-67837-4	NAT-3	Total/NA	Water	375.4	
680-67837-7	RAB-MW3	Total/NA	Water	375.4	
680-67837-9	Field Blank	Total/NA	Water	375.4	
680-67837-11	MW-7L	Total/NA	Water	375.4	
680-67837-11 DU	MW-7L	Total/NA	Water	375.4	
680-67837-6	NAT-1	Total/NA	Water	375.4	
680-67837-5	NAT-2	Total/NA	Water	375.4	
680-67837-10	MW-7U	Total/NA	Water	375.4	
680-67837-1 MSD	RAB-MW2	Total/NA	Water	375.4	
680-67837-8	MW-10	Total/NA	Water	375.4	
680-67837-1	RAB-MW2	Total/NA	Water	375.4	
680-67837-1 MS	RAB-MW2	Total/NA	Water	375.4	
680-67837-2	RAB-MW4	Total/NA	Water	375.4	

Analysis Batch: 203380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203165/1-A	MB 680-203165/1-A	Total/NA	Water	351.2	203165
LCS 680-203165/2-A	LCS 680-203165/2-A	Total/NA	Water	351.2	203165
680-67837-1	RAB-MW2	Total/NA	Water	351.2	203165
680-67837-1 DU	RAB-MW2	Total/NA	Water	351.2	203165
680-67837-2	RAB-MW4	Total/NA	Water	351.2	203165
680-67837-3	Field Dup	Total/NA	Water	351.2	203165
680-67837-4	NAT-3	Total/NA	Water	351.2	203165
680-67837-5	NAT-2	Total/NA	Water	351.2	203165
680-67837-6	NAT-1	Total/NA	Water	351.2	203165

General Chemistry (Continued)

Analysis Batch: 203380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67837-8	MW-10	Total/NA	Water	351.2	203165
680-67837-7	RAB-MW3	Total/NA	Water	351.2	203165
680-67837-9	Field Blank	Total/NA	Water	351.2	203165
680-67837-10	MW-7U	Total/NA	Water	351.2	203165
680-67837-11	MW-7L	Total/NA	Water	351.2	203165

Analysis Batch: 203407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203407/2	MB 680-203407/2	Total/NA	Water	9060	
LCS 680-203407/3	LCS 680-203407/3	Total/NA	Water	9060	
680-67837-1	RAB-MW2	Total/NA	Water	9060	
680-67837-2	RAB-MW4	Total/NA	Water	9060	
680-67837-3	Field Dup	Total/NA	Water	9060	
680-67837-4	NAT-3	Total/NA	Water	9060	
680-67837-5	NAT-2	Total/NA	Water	9060	
680-67837-6	NAT-1	Total/NA	Water	9060	
680-67837-7	RAB-MW3	Total/NA	Water	9060	
680-67837-8	MW-10	Total/NA	Water	9060	
680-67837-9	Field Blank	Total/NA	Water	9060	
680-67837-10	MW-7U	Total/NA	Water	9060	
680-67837-11	MW-7L	Total/NA	Water	9060	
680-67837-11 MS	MW-7L	Total/NA	Water	9060	
680-67837-11 MSD	MW-7L	Total/NA	Water	9060	

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-5

Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/03/11 01:01	RB	TAL SAV
Total/NA	Prep	3520C			500 mL	0.5 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 16:43	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	201557	04/29/11 23:34	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204798	04/29/11 23:34	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 20:35	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:09	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202881	05/13/11 12:58	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 10:11	TH	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	202914	05/13/11 14:19	JR	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	202965	05/14/11 13:00	JR	TAL SAV

Client Sample ID: LF-4

Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/03/11 01:29	RB	TAL SAV
Total/NA	Prep	3520C			1049.8 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 17:10	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202506	05/10/11 18:04	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 21:11	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 21:10	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:15	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 13:59	TH	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	202914	05/13/11 14:17	JR	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	202965	05/14/11 13:02	JR	TAL SAV

Client Sample ID: LF-1

Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201921	05/03/11 14:03	RB	TAL SAV
Total/NA	Prep	3520C			1051.2 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 17:38	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 05:53	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 21:35	TC	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-1

Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 21:17	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:16	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 14:30	TH	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	202914	05/13/11 14:21	JR	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	202965	05/14/11 13:00	JR	TAL SAV

Client Sample ID: LF-2

Date Collected: 04/27/11 11:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201921	05/03/11 13:06	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 06:17	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 21:59	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 21:24	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:17	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 14:46	TH	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	202914	05/13/11 14:39	JR	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	202965	05/14/11 13:05	JR	TAL SAV

Client Sample ID: LF-3

Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	5 mL	5 mL	201921	05/03/11 15:01	RB	TAL SAV
Total/NA	Analysis	8260B		1	5 mL	5 mL	201923	05/04/11 01:55	RB	TAL SAV
Total/NA	Prep	3520C			1056.5 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 18:05	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 06:40	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 22:23	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 21:45	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:19	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 15:04	TH	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-3

Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	375.4		20	2 mL	2 mL	202914	05/13/11 14:40	JR	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	202965	05/14/11 13:05	JR	TAL SAV

Client Sample ID: WWL-2

Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201921	05/03/11 13:34	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 07:04	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 22:46	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		4			202087	05/05/11 21:52	BR	TAL SAV
Total/NA	Analysis	6020		1			202087	05/06/11 02:11	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:20	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 15:21	TH	TAL SAV
Total/NA	Analysis	375.4		2	2 mL	2 mL	202914	05/13/11 14:39	JR	TAL SAV
Total/NA	Analysis	325.2		100	2 mL	2 mL	202965	05/14/11 13:05	JR	TAL SAV

Client Sample ID: WWL-1

Date Collected: 04/27/11 14:35
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	201921	05/03/11 16:27	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 07:28	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 23:10	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		2			202087	05/05/11 21:59	BR	TAL SAV
Total/NA	Analysis	6020		1			202087	05/06/11 02:19	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:21	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	202914	05/13/11 14:23	JR	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	202965	05/14/11 13:05	JR	TAL SAV
Total/NA	Analysis	9060		5	25 mL	25 mL	203175	05/16/11 15:51	KB	TAL SAV

Client Sample ID: Trip Blank 2

Lab Sample ID: 680-67794-8

Date Collected: 04/27/11 00:00

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 19:15	RB	TAL SAV

Client Sample ID: Equipment Blank

Lab Sample ID: 680-67794-9

Date Collected: 04/27/11 12:45

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201744	05/02/11 20:13	RB	TAL SAV
Total/NA	Prep	3520C			1049.2 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 18:32	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 07:52	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 23:34	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 22:06	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:22	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 16:03	TH	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	202914	05/13/11 13:42	JR	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	202965	05/14/11 13:01	JR	TAL SAV

Client Sample ID: WWL-3L

Lab Sample ID: 680-67794-10

Date Collected: 04/27/11 16:25

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	5 mL	5 mL	201921	05/03/11 18:55	RB	TAL SAV
Total/NA	Prep	3520C			1046.0 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 19:00	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 08:16	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/06/11 23:58	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		4			202087	05/06/11 10:22	BR	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 22:13	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:24	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:48	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 16:20	TH	TAL SAV
Total/NA	Analysis	375.4		20	2 mL	2 mL	202914	05/13/11 14:40	JR	TAL SAV
Total/NA	Analysis	325.2		20	2 mL	2 mL	202965	05/14/11 13:05	JR	TAL SAV

Client Sample ID: WWL-3U

Lab Sample ID: 680-67794-11

Date Collected: 04/27/11 14:30

Matrix: Water

Date Received: 04/28/11 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	201923	05/04/11 02:24	RB	TAL SAV
Total/NA	Analysis	8260B	RA	10	5 mL	5 mL	203845	05/24/11 05:05	RB	TAL SAV
Total/NA	Prep	3520C			1038.8 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 19:27	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 08:40	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/07/11 00:22	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201782	05/03/11 17:33	RA	TAL SAV
Total/NA	Analysis	6020		1			202087	05/05/11 22:20	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201550	04/28/11 17:25	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	202674	05/11/11 19:55	JR	TAL SAV
Total/NA	Analysis	351.2		1			202820	05/12/11 15:57	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	202912	05/13/11 16:36	TH	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	202914	05/13/11 14:25	JR	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	202965	05/14/11 13:05	JR	TAL SAV

Client Sample ID: RAB-MW2

Lab Sample ID: 680-67837-1

Date Collected: 04/28/11 10:05

Matrix: Water

Date Received: 04/29/11 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202067	05/05/11 16:27	RB	TAL SAV
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	202151	05/05/11 22:26	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 09:04	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/07/11 00:46	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		2			202127	05/06/11 09:33	BR	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 01:08	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:35	JR	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	203198	05/17/11 11:37	JR	TAL SAV
Total/NA	Analysis	375.4		40	2 mL	2 mL	203200	05/17/11 14:14	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:45	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 12:55	KB	TAL SAV

Client Sample ID: RAB-MW4

Lab Sample ID: 680-67837-2

Date Collected: 04/28/11 11:00

Matrix: Water

Date Received: 04/29/11 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 15:54	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202262	05/08/11 09:27	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204802	05/07/11 01:09	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV

Client Sample ID: RAB-MW4

Date Collected: 04/28/11 11:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	6020		1			202127	05/05/11 23:16	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:38	JR	TAL SAV
Total/NA	Analysis	325.2		5	2 mL	2 mL	203198	05/17/11 11:24	JR	TAL SAV
Total/NA	Analysis	375.4		100	2 mL	2 mL	203200	05/17/11 14:14	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:45	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 13:12	KB	TAL SAV

Client Sample ID: Field Dup

Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202067	05/05/11 16:56	RB	TAL SAV
Total/NA	Analysis	8260B	DL	4000	5 mL	5 mL	202151	05/05/11 23:12	RB	TAL SAV
Total/NA	Prep	3520C			1057.5 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 22:37	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 20:24	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/11/11 21:54	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		10			202127	05/06/11 09:54	BR	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 01:29	BR	TAL SAV
Total/NA	Analysis	353.2		5	2 mL	2 mL	201552	04/29/11 18:17	JR	TAL SAV
Total/NA	Analysis	325.2		5	2 mL	2 mL	203198	05/17/11 11:24	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203200	05/17/11 13:23	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:45	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 13:31	KB	TAL SAV

Client Sample ID: NAT-3

Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202067	05/05/11 17:25	RB	TAL SAV
Total/NA	Analysis	8260B	DL	4000	5 mL	5 mL	202151	05/05/11 23:35	RB	TAL SAV
Total/NA	Prep	3520C			1041.5 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			202342	05/09/11 23:04	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 20:48	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/11/11 22:18	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		10			202127	05/06/11 10:01	BR	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 01:36	BR	TAL SAV

Client Sample ID: NAT-3

Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:41	JR	TAL SAV
Total/NA	Analysis	325.2		5	2 mL	2 mL	203198	05/17/11 11:20	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203200	05/17/11 13:23	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:45	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 13:50	KB	TAL SAV

Client Sample ID: NAT-2

Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 16:23	RB	TAL SAV
Total/NA	Analysis	8260B	DL	500	5 mL	5 mL	202151	05/05/11 22:49	RB	TAL SAV
Total/NA	Prep	3520C			1037.0 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			203354	05/18/11 16:52	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 21:12	DH	TAL SAV
Total/NA	Analysis	8015B	DL	50	1.0	1 mL	202859	05/13/11 12:47	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/11/11 22:42	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 01:43	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:42	JR	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	203198	05/17/11 11:24	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	203200	05/17/11 13:59	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:45	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 14:09	KB	TAL SAV

Client Sample ID: NAT-1

Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202067	05/05/11 13:28	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 21:35	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/11/11 23:06	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		1			202127	05/05/11 23:44	BR	TAL SAV
Total/NA	Analysis	353.2		20	2 mL	2 mL	201552	04/29/11 18:20	JR	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203198	05/17/11 10:45	JR	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	203200	05/17/11 13:57	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:45	JR	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-1

Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 14:29	KB	TAL SAV

Client Sample ID: RAB-MW3

Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 17:20	RB	TAL SAV
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	202067	05/05/11 15:59	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 21:59	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/11/11 23:30	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 00:19	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:46	JR	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203198	05/17/11 10:45	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203200	05/17/11 13:25	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 14:45	KB	TAL SAV

Client Sample ID: MW-10

Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202067	05/05/11 13:56	RB	TAL SAV
Total/NA	Prep	3520C			1038.2 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			203354	05/18/11 17:19	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 22:23	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/11/11 23:54	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 00:26	BR	TAL SAV
Total/NA	Analysis	353.2		5	2 mL	2 mL	201552	04/29/11 18:32	JR	TAL SAV
Total/NA	Analysis	325.2		5	2 mL	2 mL	203198	05/17/11 11:20	JR	TAL SAV
Total/NA	Analysis	375.4		20	2 mL	2 mL	203200	05/17/11 14:12	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:45	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 15:06	KB	TAL SAV

Client Sample ID: Field Blank

Lab Sample ID: 680-67837-9

Date Collected: 04/28/11 00:00
Matrix: Water
Date Received: 04/29/11 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 13:30	RB	TAL SAV
Total/NA	Prep	3520C			1047.5 mL	1 mL	201990	05/05/11 14:45	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			203354	05/18/11 18:40	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 22:47	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 00:18	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 00:33	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:48	JR	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203198	05/17/11 11:29	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203200	05/17/11 13:49	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 15:22	KB	TAL SAV

Client Sample ID: MW-7U

Lab Sample ID: 680-67837-10

Date Collected: 04/28/11 16:35
Matrix: Water
Date Received: 04/29/11 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202067	05/05/11 14:25	RB	TAL SAV
Total/NA	Prep	3520C			1051.2 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			203354	05/18/11 17:46	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 23:11	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 00:42	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		2			202127	05/06/11 10:15	BR	TAL SAV
Total/NA	Analysis	6020		10			202127	05/06/11 10:49	BR	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 01:50	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:49	JR	TAL SAV
Total/NA	Analysis	325.2		50	2 mL	2 mL	203198	05/17/11 11:37	JR	TAL SAV
Total/NA	Analysis	375.4		20	2 mL	2 mL	203200	05/17/11 14:10	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 15:38	KB	TAL SAV

Client Sample ID: MW-7L

Lab Sample ID: 680-67837-11

Date Collected: 04/28/11 16:40
Matrix: Water
Date Received: 04/29/11 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 18:47	RB	TAL SAV
Total/NA	Prep	3520C			1049.4 mL	1 mL	201675	05/03/11 14:47	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			203354	05/18/11 18:13	ND	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7L

Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/12/11 23:35	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 01:06	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201784	05/03/11 17:39	RA	TAL SAV
Total/NA	Analysis	6020		1			202127	05/06/11 00:47	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201552	04/29/11 17:53	JR	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203198	05/17/11 10:56	JR	TAL SAV
Total/NA	Analysis	375.4		2	2 mL	2 mL	203200	05/17/11 13:51	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 16:35	KB	TAL SAV

Client Sample ID: Trip Blank 3

Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 13:59	RB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 038874

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Corrective Action

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Aqualon	1201555	
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Erin Wright	CLIENT PHONE	CLIENT FAX
CLIENT NAME: GES	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: App IX SVOCs	App IX VOCs	TAL Metals	Alcohols	Chlorides	Nitrates	Nitrites	TKN	TOC	REMARKS
		PRESERVATIVE															
		NUMBER OF CONTAINERS SUBMITTED															
4/27	0930	LF-5	G	X				X	X	X	X	X	X	X	X	X	
	0930	MS/MSD						X	X	X	X	X	X	X	X	X	
	1050	LF-4						X	X	X	X	X	X	X	X	X	
	0915	LF-1						X	X	X	X	X	X	X	X	X	
	1110	LF-2							X	X	X	X	X	X	X	X	
	1220	LF-3						X	X	X	X	X	X	X	X	X	
	1245	WWL-2						X	X	X	X	X	X	X	X	X	← No SVOCs
	1435	WWL-1							X	X	X	X	X	X	X	X	
		Trip Blank 2							X								
	1245	Equipment Blank						X	X	X	X	X	X	X	X	X	
	1625	WWL-3L						X	X	X	X	X	X	X	X	X	
↓	1430	WWL-3U						X	X	X	X	X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Kate Hall	4/27/11	1630						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	4/28/11	1003	YES ○ NO ○		680-66794	2.6 / 2.2 / 1.3 / 1.9 / 1.3 / 2.0 °C

TAL 8240-680 (1008)

Serial Number 040028

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Corrective Action

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Aqualon	PROJECT NO.: 1201555	PROJECT LOCATION (STATE)	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○ DATE DUE
CLIENT (SITE) PM: Erin Wright	CLIENT PHONE	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: GES	CLIENT E-MAIL		
CLIENT ADDRESS			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	Appix SVOCs	Appix VOCs	Metals (TAL)	Alcohols	Chlorides	Nitrates	Nitrites	TKN	TOC	REMARKS
4/28/11	1005	RAB-MW2	G	X					X	X	X	X	X	X	X	X	
	1100	RAB-MW4															
		Field Dup						X									
	1045	NAT-3						X									
	1220	NAT-2						X									
	1440	NAT-1															
	1215	RAB-MW3															
	1440	MW-10						X									
		Field Blank						X									
	1635	MW-7U						X									
	1640	MW-7L						X									
		Trip Blank 3															

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Kate Hall	4/28/11	1830						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
George K Conner	4/28/11	0928	YES ○ NO ○		680-67837	0.2/0.2/0.4/0.3/0.5°C

TAL 8240-680 (1008)

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-67794-1
SDG Number: HAQ035

Login Number: 67794
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	6 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3 - 2.6 C Temp Range
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	1 liter -11 received broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-67794-1
SDG Number: HAQ035

Login Number: 67837
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	5 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2 - 0.5 C Temp Range
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	-3 &-4: 250ml (R) & -3,-4,-5: 125ml amber (HCL) ph needs to be adjusted
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP	0	0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025	0	399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA	0	SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-67898-1
TestAmerica Sample Delivery Group: HAQ036
Client Project/Site: Aqualon Hopewell - GW CA APR 2011

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Bruce Hough

Authorized for release by:
06/10/2011 11:40:53 AM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Erin Wright

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Certification Summary 154

Job ID: 680-67898-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-67898-1 / SDG HAQ036

Receipt
One amber liter for client sample Equipment Blank was received broken upon receipt.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: Manual integration was performed on the following sample(s): MW-9 (680-67898-5).

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C LL: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 202119 exceeded control limits for the following analyte(s): hexachlorophene and famphur. They have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 202119 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C LL: The method blank for batch 202199 contained Acetophenone and 1,4-Dichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. Samples have been flagged accordingly.

No other analytical or quality issues were noted.

GC VOA
Method(s) 8015B: A laboratory control sample (LCS) was inadvertently omitted in the batch associated with the original analysis of the following samples: MW-1 (680-67948-1), NAT-4 (680-67948-2). Reanalysis was performed outside of the analytical holding time for these samples and results have been flagged for holding time. The original data has not been provided and only reanalysis results are included in the report.

Method(s) 8015B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for one analyte to recover outside criteria for this method when a full list spike is utilized. The LCSD associated with batch 205003 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8015B: The trip blank associated with these samples was analyzed outside of holding time for Ethanol, Isopropanol and Methanol. The trip blank results for these compounds have been flagged accordingly.

No other analytical or quality issues were noted.

Metals
Method(s) 6020: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): MW-5U (680-67898-7).

Method(s) 6020: Due to the high concentration of barium, calcium, iron, magnesium, manganese, and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-201997 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6020: Due to the high concentration of barium, calcium, iron, magnesium, and manganese, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-201999 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Job ID: 680-67898-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Method(s) 6020: The method blank for batch 201977 contained Potassium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 325.2, SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 203698 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for sample MW-4 (680-67898-2 MS), MW-4 (680-67898-2 MSD) were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 375.4: The following sample(s) was diluted due to the nature of the sample matrix: MW-4 (680-67898-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Comments

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-67898-1	VFSP-MW-1	Water	04/29/11 09:15	04/30/11 10:50
680-67898-2	MW-4	Water	04/29/11 10:45	04/30/11 10:50
680-67898-3	EQUIPMENT BLANK	Water	04/29/11 11:40	04/30/11 10:50
680-67898-4	MW-4U	Water	04/29/11 12:35	04/30/11 10:50
680-67898-5	MW-9	Water	04/29/11 14:05	04/30/11 10:50
680-67898-6	MW-5	Water	04/29/11 11:40	04/30/11 10:50
680-67898-7	MW-5U	Water	04/29/11 10:40	04/30/11 10:50
680-67898-8	FIELD BLANK	Water	04/29/11 00:00	04/30/11 10:50
680-67898-9	FIELD DUPLICATE	Water	04/29/11 00:00	04/30/11 10:50
680-67898-10	MW-2	Water	04/29/11 14:30	04/30/11 10:50
680-67898-11	TRIP BLANK 4	Water	04/29/11 00:00	04/30/11 10:50
680-67948-1	MW-1	Water	05/02/11 09:25	05/03/11 11:28
680-67948-2	NAT-4	Water	05/02/11 09:55	05/03/11 11:28
680-67948-3	Trip Blank	Water	05/02/11 00:00	05/03/11 11:28

Method Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL SAV
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	TAL SAV
6020	Metals (ICP/MS)	SW846	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
9060	Organic Carbon, Total (TOC)	SW846	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: VFSP-MW-1
Date Collected: 04/29/11 09:15
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 02:40	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 02:40	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 02:40	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 02:40	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 02:40	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 02:40	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 02:40	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 02:40	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 02:40	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 02:40	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 02:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 02:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 02:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 02:40	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 02:40	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Diethyl ether	**69**		10	1.0	ug/L			05/06/11 02:40	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 02:40	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 02:40	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 02:40	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 02:40	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 02:40	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 02:40	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 02:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 02:40	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 02:40	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 02:40	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 02:40	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 02:40	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 02:40	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
t-Butanol	**6.3**		5.0	2.6	ug/L			05/06/11 02:40	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 02:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 02:40	1

Client Sample ID: VFSP-MW-1
Date Collected: 04/29/11 09:15
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 02:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 02:40	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 02:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 02:40	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 02:40	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 02:40	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 02:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 02:40*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 02:40*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/06/11 02:40*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 02:40*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 01:30	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 00:23	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 00:23	1
Methanol	1000	U	1000	830	ug/L			05/13/11 00:23	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**73**	**J**	100	50	ug/L		05/05/11 11:21	05/11/11 07:00	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:00	1
Barium	**180**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:00	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:00	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:00	1
Calcium	**86000**		500	170	ug/L		05/05/11 11:21	05/11/11 07:00	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:00	1
Cobalt	**2.2**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:00	1
Copper	**1.1**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:00	1
Iron	**3900**		100	44	ug/L		05/05/11 11:21	05/11/11 07:00	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:00	1
Magnesium	**8300**		250	100	ug/L		05/05/11 11:21	05/11/11 07:00	1
Manganese	**760**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:00	1
Nickel	**2.4**	**J**	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Potassium	**6600**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 07:00	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:00	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:00	1
Sodium	**35000**		500	170	ug/L		05/05/11 11:21	05/11/11 07:00	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: VFSP-MW-1
Date Collected: 04/29/11 09:15
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:00	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:00	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51000**		1000	180	ug/L			05/21/11 12:18	1
Nitrogen, Kjeldahl	**370**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:21	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:21	1
Sulfate	**130000**		25000	12000	ug/L			05/23/11 12:11	5
Total Organic Carbon	**680**	**J**	1000	500	ug/L			05/17/11 18:24	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 03:03	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:03	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:03	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Diethyl ether	**1600**	**E**	10	1.0	ug/L			05/06/11 03:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 03:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 03:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:03	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:03	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
t-Butanol	**3200**	**E**	5.0	2.6	ug/L			05/06/11 03:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:03	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 03:03*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/06/11 03:03*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/06/11 03:03*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 03:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/06/11 12:50	50
Acetonitrile	2000	U	2000	500	ug/L			05/06/11 12:50	50
Acrolein	1000	U	1000	370	ug/L			05/06/11 12:50	50
Acrylonitrile	1000	U	1000	360	ug/L			05/06/11 12:50	50
Allyl chloride	50	U	50	10	ug/L			05/06/11 12:50	50
Benzene	50	U	50	12	ug/L			05/06/11 12:50	50
Benzyl chloride	50	U	50	50	ug/L			05/06/11 12:50	50
Bromodichloromethane	50	U	50	12	ug/L			05/06/11 12:50	50
Bromoform	50	U	50	25	ug/L			05/06/11 12:50	50
Bromomethane	50	U	50	40	ug/L			05/06/11 12:50	50
2-Butanone	500	U	500	50	ug/L			05/06/11 12:50	50
Carbon disulfide	100	U	100	30	ug/L			05/06/11 12:50	50
Carbon tetrachloride	50	U	50	25	ug/L			05/06/11 12:50	50
Chlorobenzene	50	U	50	12	ug/L			05/06/11 12:50	50
Chloroethane	50	U	50	50	ug/L			05/06/11 12:50	50
Chloroform	50	U	50	7.0	ug/L			05/06/11 12:50	50
Chloromethane	50	U	50	16	ug/L			05/06/11 12:50	50
Chloroprene	50	U	50	15	ug/L			05/06/11 12:50	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/06/11 12:50	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/06/11 12:50	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/06/11 12:50	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/06/11 12:50	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/06/11 12:50	50
Dibromomethane	50	U	50	10	ug/L			05/06/11 12:50	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/06/11 12:50	50

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/06/11 12:50	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/06/11 12:50	50
Diethyl ether	**1400**	**D**	500	50	ug/L			05/06/11 12:50	50
Ethylbenzene	50	U	50	5.5	ug/L			05/06/11 12:50	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/06/11 12:50	50
Ethyl methacrylate	50	U	50	12	ug/L			05/06/11 12:50	50
2-Hexanone	500	U	500	50	ug/L			05/06/11 12:50	50
Iodomethane	250	U	250	50	ug/L			05/06/11 12:50	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/06/11 12:50	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/06/11 12:50	50
Methylene Chloride	250	U	250	50	ug/L			05/06/11 12:50	50
Methyl methacrylate	50	U	50	24	ug/L			05/06/11 12:50	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/06/11 12:50	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/06/11 12:50	50
n-Heptane	50	U	50	21	ug/L			05/06/11 12:50	50
Pentachloroethane	250	U	250	60	ug/L			05/06/11 12:50	50
Propionitrile	1000	U	1000	230	ug/L			05/06/11 12:50	50
Propylene oxide	10000	U	10000	10000	ug/L			05/06/11 12:50	50
Styrene	50	U	50	5.5	ug/L			05/06/11 12:50	50
t-Butanol	**2800**	**D**	250	130	ug/L			05/06/11 12:50	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/06/11 12:50	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/06/11 12:50	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/06/11 12:50	50
Toluene	50	U	50	16	ug/L			05/06/11 12:50	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/06/11 12:50	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/06/11 12:50	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/06/11 12:50	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/06/11 12:50	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/06/11 12:50	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/06/11 12:50	50
Trichloroethylene	50	U	50	6.5	ug/L			05/06/11 12:50	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/06/11 12:50	50
Vinyl acetate	100	U	100	14	ug/L			05/06/11 12:50	50
Vinyl chloride	50	U	50	9.0	ug/L			05/06/11 12:50	50
Xylenes, Total	100	U	100	10	ug/L			05/06/11 12:50	50

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 12:50*	*50*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*05/06/11 12:50*	*50*
Dibromofluoromethane	*100*		*70 - 130*		*05/06/11 12:50*	*50*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/06/11 12:50*	*50*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Acetophenone	**0.13**	**J B**	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

Client Sample ID: MW-4
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Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 14:27	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 14:27	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Butyl benzyl phthalate	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Chlorophenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 14:27	1
Diallate	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,4-Dichlorobenzene	**0.41**	**J B**	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/06/11 14:51	06/02/11 14:27	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dinitrotoluene	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,4-Dioxane	**4.0**		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 14:27	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Famphur	0.96	U *	0.96	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 14:27	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 14:27	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenol	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pronamide	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 14:27	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Organic Acid	*7.9*	*T J*	*ug/L*		*6.24*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.59*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*17*	*T J*	*ug/L*		*6.63*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*28*	*T J*	*ug/L*		*6.84*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*17*	*T J*	*ug/L*		*6.87*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*110*	*T J*	*ug/L*		*7.12*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*14*	*T J*	*ug/L*		*8.52*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*15*	*T J*	*ug/L*		*8.55*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*91*	*T J*	*ug/L*		*8.69*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*38*	*T J*	*ug/L*		*10.09*		*05/06/11 14:51*	*06/02/11 14:27*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*34 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
2-Fluorophenol	*53*		*25 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
Nitrobenzene-d5	*55*		*32 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
Phenol-d5	*29*		*27 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
Terphenyl-d14	*67*		*36 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
2,4,6-Tribromophenol	*75*		*30 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 01:53	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 00:46	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 00:46	1
Methanol	**5100**		1000	830	ug/L			05/13/11 00:46	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**120**		100	50	ug/L		05/05/11 11:21	05/11/11 14:06	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
Arsenic	**3.8**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:06	1
Barium	**760**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:06	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:06	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:06	1
Calcium	**110000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:06	1
Chromium	**4.1**	**J**	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:06	1
Cobalt	**9.5**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:06	1
Copper	**3.7**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:06	1
Iron	**61000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:06	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:06	1
Magnesium	**36000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:06	1
Manganese	**2300**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:06	1
Nickel	**4.3**	**J**	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
Potassium	**6300**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 14:06	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:06	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:06	1
Sodium	**470000**		1000	340	ug/L		05/05/11 11:21	05/11/11 07:07	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:06	1
Vanadium	**4.3**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:06	1
Zinc	**9.4**	**J**	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540000**		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	**7500**		400	300	ug/L		05/17/11 10:30	05/18/11 17:37	2
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:18	1
Nitrite as N	**12**	**J**	50	10	ug/L			04/30/11 22:18	1
Sulfate	50000	U	50000	25000	ug/L			05/23/11 12:38	10
Total Organic Carbon	**32000**		1000	500	ug/L			05/17/11 18:41	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 14:28	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 14:28	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 14:28	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 14:28	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 14:28	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 14:28	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 14:28	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 14:28	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 14:28	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 14:28	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 14:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 14:28	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:28	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 14:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 14:28	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 14:28	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 14:28	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 14:28	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 14:28	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 14:28	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 14:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 14:28	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 14:28	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 14:28	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 14:28	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 14:28	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 14:28	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 14:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 14:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:28	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 14:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 14:28	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 14:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 14:28	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 14:28	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 14:28	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 14:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 14:28*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 14:28*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 14:28*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/04/11 14:28*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Acetophenone	**0.36**	**J B**	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/06/11 14:51	06/02/11 15:23	1
Aniline	2.0	U	2.0	0.97	ug/L		05/06/11 14:51	06/02/11 15:23	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/06/11 14:51	06/02/11 15:23	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Dichlorobenzene	**0.70**	**J B**	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/06/11 14:51	06/02/11 15:23	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/06/11 14:51	06/02/11 15:23	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Famphur	1.0	U *	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorophene	500	U *	500	25	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methapyrilene	200	U	200	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/06/11 14:51	06/02/11 15:23	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/06/11 14:51	06/02/11 15:23	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
o,o',o''-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenol	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phorate	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
p-Phenylene diamine	200	U	200	16	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/06/11 14:51	06/02/11 15:23	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*6.3*	*T A J*	*ug/L*		*2.88*		*05/06/11 14:51*	*06/02/11 15:23*	*1*
Unknown	*3.0*	*T J*	*ug/L*		*4.08*		*05/06/11 14:51*	*06/02/11 15:23*	*1*
Maneb	*4.9*	*T J N*	*ug/L*		*10.98*	*12427-38-2*	*05/06/11 14:51*	*06/02/11 15:23*	*1*
Unknown	*4.0*	*T J*	*ug/L*		*11.24*		*05/06/11 14:51*	*06/02/11 15:23*	*1*
Unknown	*13*	*T J*	*ug/L*		*11.43*		*05/06/11 14:51*	*06/02/11 15:23*	*1*

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Date Collected: 04/29/11 11:40
Matrix: Water
Date Received: 04/30/11 10:50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Octadecanoic acid, 2-methylpropyl ester	10	T J N	ug/L		12.29	646-13-9	05/06/11 14:51	06/02/11 15:23	1
Tridecane, 7-hexyl-	2.6	T J N	ug/L		12.33	7225-66-3	05/06/11 14:51	06/02/11 15:23	1
Unknown	2.6	T J	ug/L		12.50		05/06/11 14:51	06/02/11 15:23	1
2-Methyloctadecane	2.8	T J N	ug/L		13.11	0-00-0	05/06/11 14:51	06/02/11 15:23	1
Unknown	3.9	T J	ug/L		15.87		05/06/11 14:51	06/02/11 15:23	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	41		34 - 130	05/06/11 14:51	06/02/11 15:23	1
2-Fluorophenol	60		25 - 130	05/06/11 14:51	06/02/11 15:23	1
Nitrobenzene-d5	41		32 - 130	05/06/11 14:51	06/02/11 15:23	1
Phenol-d5	49		27 - 130	05/06/11 14:51	06/02/11 15:23	1
Terphenyl-d14	51		36 - 130	05/06/11 14:51	06/02/11 15:23	1
2,4,6-Tribromophenol	51		30 - 130	05/06/11 14:51	06/02/11 15:23	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 03:05	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 01:58	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 01:58	1
Methanol	1000	U	1000	830	ug/L			05/13/11 01:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 07:28	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:28	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:28	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:28	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:28	1
Calcium	500	U	500	170	ug/L		05/05/11 11:21	05/11/11 07:28	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:28	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:28	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:28	1
Iron	**52**	**J**	100	44	ug/L		05/05/11 11:21	05/11/11 07:28	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:28	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 07:28	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:28	1
Nickel	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Potassium	**350**	**J B**	1000	330	ug/L		05/05/11 11:21	05/11/11 07:28	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:28	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:28	1
Sodium	**380**	**J**	500	170	ug/L		05/05/11 11:21	05/11/11 07:28	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:28	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:28	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/21/11 12:21	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:22	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:22	1
Sulfate	5000	U	5000	2500	ug/L			05/23/11 11:17	1
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 19:37	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**13**	**J**	25	5.0	ug/L			05/06/11 03:26	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:26	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:26	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:26	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:26	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:26	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Diethyl ether	**1800**	**E**	10	1.0	ug/L			05/06/11 03:26	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:26	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 03:26	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 03:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:26	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:26	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:26	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:26	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
t-Butanol	**3800**	**E**	5.0	2.6	ug/L			05/06/11 03:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:26	1

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:26	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 03:26*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/06/11 03:26*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/06/11 03:26*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 03:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	500	ug/L			05/06/11 13:19	100
Acetonitrile	4000	U	4000	1000	ug/L			05/06/11 13:19	100
Acrolein	2000	U	2000	740	ug/L			05/06/11 13:19	100
Acrylonitrile	2000	U	2000	720	ug/L			05/06/11 13:19	100
Allyl chloride	100	U	100	20	ug/L			05/06/11 13:19	100
Benzene	100	U	100	25	ug/L			05/06/11 13:19	100
Benzyl chloride	100	U	100	100	ug/L			05/06/11 13:19	100
Bromodichloromethane	100	U	100	25	ug/L			05/06/11 13:19	100
Bromoform	100	U	100	50	ug/L			05/06/11 13:19	100
Bromomethane	100	U	100	80	ug/L			05/06/11 13:19	100
2-Butanone	1000	U	1000	100	ug/L			05/06/11 13:19	100
Carbon disulfide	200	U	200	60	ug/L			05/06/11 13:19	100
Carbon tetrachloride	100	U	100	50	ug/L			05/06/11 13:19	100
Chlorobenzene	100	U	100	25	ug/L			05/06/11 13:19	100
Chloroethane	100	U	100	100	ug/L			05/06/11 13:19	100
Chloroform	100	U	100	14	ug/L			05/06/11 13:19	100
Chloromethane	100	U	100	33	ug/L			05/06/11 13:19	100
Chloroprene	100	U	100	30	ug/L			05/06/11 13:19	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			05/06/11 13:19	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			05/06/11 13:19	100
Dibromochloromethane	100	U	100	10	ug/L			05/06/11 13:19	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			05/06/11 13:19	100
1,2-Dibromoethane	100	U	100	25	ug/L			05/06/11 13:19	100
Dibromomethane	100	U	100	20	ug/L			05/06/11 13:19	100
Dichlorodifluoromethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,1-Dichloroethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,2-Dichloroethane	100	U	100	10	ug/L			05/06/11 13:19	100

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100	U	100	11	ug/L			05/06/11 13:19	100
1,2-Dichloropropane	100	U	100	13	ug/L			05/06/11 13:19	100
Diethyl ether	**1700**	**D**	1000	100	ug/L			05/06/11 13:19	100
Ethylbenzene	100	U	100	11	ug/L			05/06/11 13:19	100
Ethylene oxide	20000	U	20000	20000	ug/L			05/06/11 13:19	100
Ethyl methacrylate	100	U	100	25	ug/L			05/06/11 13:19	100
2-Hexanone	1000	U	1000	100	ug/L			05/06/11 13:19	100
Iodomethane	500	U	500	100	ug/L			05/06/11 13:19	100
Isobutyl alcohol	4000	U	4000	1100	ug/L			05/06/11 13:19	100
Methacrylonitrile	2000	U	2000	330	ug/L			05/06/11 13:19	100
Methylene Chloride	500	U	500	100	ug/L			05/06/11 13:19	100
Methyl methacrylate	100	U	100	48	ug/L			05/06/11 13:19	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	ug/L			05/06/11 13:19	100
Methyl tert-butyl ether	1000	U	1000	20	ug/L			05/06/11 13:19	100
n-Heptane	100	U	100	42	ug/L			05/06/11 13:19	100
Pentachloroethane	500	U	500	120	ug/L			05/06/11 13:19	100
Propionitrile	2000	U	2000	460	ug/L			05/06/11 13:19	100
Propylene oxide	20000	U	20000	20000	ug/L			05/06/11 13:19	100
Styrene	100	U	100	11	ug/L			05/06/11 13:19	100
t-Butanol	**3400**	**D**	500	260	ug/L			05/06/11 13:19	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			05/06/11 13:19	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			05/06/11 13:19	100
Tetrachloroethene	100	U	100	15	ug/L			05/06/11 13:19	100
Toluene	100	U	100	33	ug/L			05/06/11 13:19	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			05/06/11 13:19	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			05/06/11 13:19	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			05/06/11 13:19	100
1,2,3-Trichlorobenzene	100	U	100	35	ug/L			05/06/11 13:19	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			05/06/11 13:19	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			05/06/11 13:19	100
Trichloroethylene	100	U	100	13	ug/L			05/06/11 13:19	100
Trichlorofluoromethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			05/06/11 13:19	100
Vinyl acetate	200	U	200	28	ug/L			05/06/11 13:19	100
Vinyl chloride	100	U	100	18	ug/L			05/06/11 13:19	100
Xylenes, Total	200	U	200	20	ug/L			05/06/11 13:19	100

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 13:19*	*100*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/06/11 13:19*	*100*
Dibromofluoromethane	*102*		*70 - 130*		*05/06/11 13:19*	*100*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/06/11 13:19*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 14:55	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 14:55	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 14:55	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,4-Dichlorobenzene	**0.40**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 14:55	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,4-Dioxane	**5.1**		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 14:55	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 14:55	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 14:55	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 14:55	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Organic Acid	*16*	*T J*	*ug/L*		*6.63*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*18*	*T J*	*ug/L*		*6.84*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*19*	*T J*	*ug/L*		*6.88*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*67*	*T J*	*ug/L*		*7.12*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*58*	*T J*	*ug/L*		*8.69*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*11*	*T J*	*ug/L*		*8.77*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*10*	*T J*	*ug/L*		*9.22*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*36*	*T J*	*ug/L*		*10.09*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*7.9*	*T J*	*ug/L*		*10.25*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*10*	*T J*	*ug/L*		*11.35*		*05/06/11 14:51*	*06/02/11 14:55*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*34 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
2-Fluorophenol	*51*		*25 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
Nitrobenzene-d5	*47*		*32 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
Phenol-d5	*33*		*27 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
Terphenyl-d14	*60*		*36 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
2,4,6-Tribromophenol	*61*		*30 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 03:29	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 02:22	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 02:22	1
Methanol	1000	U	1000	830	ug/L			05/13/11 02:22	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**800**		100	50	ug/L		05/05/11 11:21	05/11/11 14:27	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Arsenic	**4.7**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:27	1
Barium	**810**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:27	1
Beryllium	**0.56**		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:27	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:27	1
Calcium	**100000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:27	1
Chromium	**11**		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:27	1
Cobalt	**31**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:27	1
Copper	**6.1**		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:27	1
Iron	**96000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:27	1
Lead	**0.86**	**J**	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:27	1
Magnesium	**43000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:27	1
Manganese	**1900**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Mercury	**0.58**	**J**	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:27	1
Nickel	**12**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Potassium	**10000**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 14:27	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:27	1
Silver	**0.48**	**J**	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:27	1
Sodium	**510000**		1000	340	ug/L		05/05/11 11:21	05/11/11 07:35	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:27	1
Vanadium	**6.2**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:27	1
Zinc	**23**		20	8.4	ug/L		05/05/11 11:21	05/11/11 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**650000**		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	**19000**		1000	750	ug/L		05/17/11 10:30	05/18/11 17:14	5
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:24	1
Nitrite as N	**22**	**J**	50	10	ug/L			04/30/11 22:24	1
Sulfate	5000	U	5000	2500	ug/L			05/23/11 11:17	1
Total Organic Carbon	**36000**		1000	500	ug/L			05/17/11 19:54	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 03:49	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:49	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:49	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:49	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:49	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:49	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:49	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:49	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:49	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:49	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:49	1
cis-1,2-Dichloroethene	**0.21**	**J**	1.0	0.15	ug/L			05/06/11 03:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:49	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
1,1-Dichloroethane	**0.83**	**J**	1.0	0.25	ug/L			05/06/11 03:49	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:49	1
1,1-Dichloroethene	**0.65**	**J**	1.0	0.11	ug/L			05/06/11 03:49	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Diethyl ether	**2900**	**E**	10	1.0	ug/L			05/06/11 03:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:49	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:49	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 03:49	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 03:49	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:49	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:49	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:49	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:49	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:49	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:49	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:49	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:49	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
t-Butanol	**180**	**E**	5.0	2.6	ug/L			05/06/11 03:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:49	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:49	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:49	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:49	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 03:49*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 03:49*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/06/11 03:49*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 03:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/06/11 13:47	50
Acetonitrile	2000	U	2000	500	ug/L			05/06/11 13:47	50
Acrolein	1000	U	1000	370	ug/L			05/06/11 13:47	50
Acrylonitrile	1000	U	1000	360	ug/L			05/06/11 13:47	50
Allyl chloride	50	U	50	10	ug/L			05/06/11 13:47	50
Benzene	50	U	50	12	ug/L			05/06/11 13:47	50
Benzyl chloride	50	U	50	50	ug/L			05/06/11 13:47	50
Bromodichloromethane	50	U	50	12	ug/L			05/06/11 13:47	50
Bromoform	50	U	50	25	ug/L			05/06/11 13:47	50
Bromomethane	50	U	50	40	ug/L			05/06/11 13:47	50
2-Butanone	500	U	500	50	ug/L			05/06/11 13:47	50
Carbon disulfide	100	U	100	30	ug/L			05/06/11 13:47	50
Carbon tetrachloride	50	U	50	25	ug/L			05/06/11 13:47	50
Chlorobenzene	50	U	50	12	ug/L			05/06/11 13:47	50
Chloroethane	50	U	50	50	ug/L			05/06/11 13:47	50
Chloroform	50	U	50	7.0	ug/L			05/06/11 13:47	50
Chloromethane	50	U	50	16	ug/L			05/06/11 13:47	50
Chloroprene	50	U	50	15	ug/L			05/06/11 13:47	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/06/11 13:47	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/06/11 13:47	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/06/11 13:47	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/06/11 13:47	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/06/11 13:47	50
Dibromomethane	50	U	50	10	ug/L			05/06/11 13:47	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/06/11 13:47	50

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/06/11 13:47	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/06/11 13:47	50
Diethyl ether	**3300**	**D**	500	50	ug/L			05/06/11 13:47	50
Ethylbenzene	50	U	50	5.5	ug/L			05/06/11 13:47	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/06/11 13:47	50
Ethyl methacrylate	50	U	50	12	ug/L			05/06/11 13:47	50
2-Hexanone	500	U	500	50	ug/L			05/06/11 13:47	50
Iodomethane	250	U	250	50	ug/L			05/06/11 13:47	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/06/11 13:47	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/06/11 13:47	50
Methylene Chloride	250	U	250	50	ug/L			05/06/11 13:47	50
Methyl methacrylate	50	U	50	24	ug/L			05/06/11 13:47	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/06/11 13:47	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/06/11 13:47	50
n-Heptane	50	U	50	21	ug/L			05/06/11 13:47	50
Pentachloroethane	250	U	250	60	ug/L			05/06/11 13:47	50
Propionitrile	1000	U	1000	230	ug/L			05/06/11 13:47	50
Propylene oxide	10000	U	10000	10000	ug/L			05/06/11 13:47	50
Styrene	50	U	50	5.5	ug/L			05/06/11 13:47	50
t-Butanol	**130**	**J D**	250	130	ug/L			05/06/11 13:47	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/06/11 13:47	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/06/11 13:47	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/06/11 13:47	50
Toluene	50	U	50	16	ug/L			05/06/11 13:47	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/06/11 13:47	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/06/11 13:47	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/06/11 13:47	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/06/11 13:47	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/06/11 13:47	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/06/11 13:47	50
Trichloroethylene	50	U	50	6.5	ug/L			05/06/11 13:47	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/06/11 13:47	50
Vinyl acetate	100	U	100	14	ug/L			05/06/11 13:47	50
Vinyl chloride	50	U	50	9.0	ug/L			05/06/11 13:47	50
Xylenes, Total	100	U	100	10	ug/L			05/06/11 13:47	50

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 13:47*	*50*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 13:47*	*50*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 13:47*	*50*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/06/11 13:47*	*50*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 15:50	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 15:50	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 15:50	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,4-Dichlorobenzene	**0.30**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 15:50	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,4-Dioxane	**9.8**		1.9	0.29	ug/L		05/06/11 14:51	06/02/11 15:50	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 15:50	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 15:50	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 15:50	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*8.1*	*T A J*	*ug/L*		*2.89*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*5.8*	*T J*	*ug/L*		*5.01*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*3.9*	*T J*	*ug/L*		*6.02*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*6.4*	*T J*	*ug/L*		*6.09*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*6.7*	*T J*	*ug/L*		*6.54*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*140*	*T J*	*ug/L*		*7.11*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown Organic Acid	*34*	*T J*	*ug/L*		*8.65*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*3.1*	*T J*	*ug/L*		*9.20*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*8.1*	*T J*	*ug/L*		*10.07*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Sulfur	*6.3*	*T J N*	*ug/L*		*10.98*	*7704-34-9*	*05/06/11 14:51*	*06/02/11 15:50*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
2-Fluorophenol	*48*		*25 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
Nitrobenzene-d5	*45*		*32 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
Phenol-d5	*40*		*27 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
Terphenyl-d14	*61*		*36 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
2,4,6-Tribromophenol	*66*		*30 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 03:53	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 02:46	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 02:46	1
Methanol	1000	U	1000	830	ug/L			05/13/11 02:46	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1500**		100	50	ug/L		05/05/11 11:21	05/11/11 07:42	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Arsenic	**4.0**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:42	1
Barium	**92**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:42	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:42	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:42	1
Calcium	**230000**		500	170	ug/L		05/05/11 11:21	05/11/11 07:42	1
Chromium	**8.9**		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:42	1
Cobalt	**2.6**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:42	1
Copper	**3.1**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:42	1
Iron	**110000**		100	44	ug/L		05/05/11 11:21	05/11/11 07:42	1
Lead	**1.1**	**J**	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:42	1
Magnesium	**62000**		250	100	ug/L		05/05/11 11:21	05/11/11 07:42	1
Manganese	**2800**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:42	1
Nickel	**6.4**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Potassium	**7600**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 07:42	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:42	1
Silver	**0.42**	**J**	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:42	1
Sodium	**340000**		500	170	ug/L		05/05/11 11:21	05/11/11 07:42	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:42	1
Vanadium	**5.7**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:42	1
Zinc	**14**	**J**	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**570000**		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	**1600**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:25	1
Nitrite as N	**12**	**J**	50	10	ug/L			04/30/11 22:25	1
Sulfate	**650000**		250000	120000	ug/L			05/23/11 12:42	50
Total Organic Carbon	**6900**		1000	500	ug/L			05/17/11 20:50	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:12	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:12	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:12	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:12	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:12	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:12	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:12	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:12	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:12	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:12	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:12	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:12	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Diethyl ether	**220**	**E**	10	1.0	ug/L			05/06/11 04:12	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:12	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:12	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 04:12	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 04:12	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:12	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:12	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:12	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:12	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:12	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:12	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:12	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:12	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
t-Butanol	**170**	**E**	5.0	2.6	ug/L			05/06/11 04:12	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:12	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:12	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:12	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:12	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:12	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 04:12*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 04:12*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/06/11 04:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/06/11 04:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/06/11 14:16	5
Acetonitrile	200	U	200	50	ug/L			05/06/11 14:16	5
Acrolein	100	U	100	37	ug/L			05/06/11 14:16	5
Acrylonitrile	100	U	100	36	ug/L			05/06/11 14:16	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
Benzene	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/06/11 14:16	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/06/11 14:16	5
2-Butanone	50	U	50	5.0	ug/L			05/06/11 14:16	5
Carbon disulfide	10	U	10	3.0	ug/L			05/06/11 14:16	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/06/11 14:16	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/06/11 14:16	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/06/11 14:16	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 14:16	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/06/11 14:16	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/06/11 14:16	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/06/11 14:16	5

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Diethyl ether	**200**	**D**	50	5.0	ug/L			05/06/11 14:16	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/06/11 14:16	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
2-Hexanone	50	U	50	5.0	ug/L			05/06/11 14:16	5
Iodomethane	25	U	25	5.0	ug/L			05/06/11 14:16	5
Isobutyl alcohol	200	U	200	55	ug/L			05/06/11 14:16	5
Methacrylonitrile	100	U	100	16	ug/L			05/06/11 14:16	5
Methylene Chloride	25	U	25	5.0	ug/L			05/06/11 14:16	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/06/11 14:16	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/06/11 14:16	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/06/11 14:16	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/06/11 14:16	5
Pentachloroethane	25	U	25	6.0	ug/L			05/06/11 14:16	5
Propionitrile	100	U	100	23	ug/L			05/06/11 14:16	5
Propylene oxide	1000	U	1000	1000	ug/L			05/06/11 14:16	5
Styrene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
t-Butanol	**150**	**D**	25	13	ug/L			05/06/11 14:16	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/06/11 14:16	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 14:16	5
Toluene	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/06/11 14:16	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/06/11 14:16	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/06/11 14:16	5
Vinyl acetate	10	U	10	1.4	ug/L			05/06/11 14:16	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/06/11 14:16	5
Xylenes, Total	10	U	10	1.0	ug/L			05/06/11 14:16	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 14:16*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/06/11 14:16*	*5*
Dibromofluoromethane	*98*		*70 - 130*		*05/06/11 14:16*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 14:16*	*5*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 16:18	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 16:18	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 16:18	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,4-Dichlorobenzene	**0.31**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 16:18	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,4-Dioxane	**1.3**	**J**	1.9	0.29	ug/L		05/06/11 14:51	06/02/11 16:18	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 16:18	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 16:18	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 16:18	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*21*	*T J*	*ug/L*		*4.85*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*15*	*T J*	*ug/L*		*4.97*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*95*	*T J*	*ug/L*		*6.17*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*67*	*T J*	*ug/L*		*6.61*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*49*	*T J*	*ug/L*		*6.65*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*30*	*T J*	*ug/L*		*7.11*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*35*	*T J*	*ug/L*		*8.67*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*30*	*T J*	*ug/L*		*9.25*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*24*	*T J*	*ug/L*		*9.32*		*05/06/11 14:51*	*06/02/11 16:18*	*1*
Unknown	*17*	*T J*	*ug/L*		*10.29*		*05/06/11 14:51*	*06/02/11 16:18*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*34 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
2-Fluorophenol	*52*		*25 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
Nitrobenzene-d5	*50*		*32 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
Phenol-d5	*45*		*27 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
Terphenyl-d14	*61*		*36 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
2,4,6-Tribromophenol	*62*		*30 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 04:17	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 03:10	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 03:10	1
Methanol	1000	U	1000	830	ug/L			05/13/11 03:10	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**670**		100	50	ug/L		05/05/11 11:21	05/11/11 14:34	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Arsenic	**1.6**	**J**	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:34	1
Barium	**790**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:34	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:34	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:34	1
Calcium	**190000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:34	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:34	1
Cobalt	**1.6**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:34	1
Copper	**1.7**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:34	1
Iron	**53000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:34	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:34	1
Magnesium	**41000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:34	1
Manganese	**3000**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:34	1
Nickel	**2.7**	**J**	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Potassium	**6700**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 14:34	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:34	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:34	1
Sodium	**760000**		2000	680	ug/L		05/05/11 11:21	05/11/11 08:17	4
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:34	1
Vanadium	**5.0**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:34	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200000**		20000	3600	ug/L			05/21/11 12:46	20
Nitrogen, Kjeldahl	**3000**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	**1000**		50	10	ug/L			04/30/11 22:26	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:26	1
Sulfate	**150000**		25000	12000	ug/L			05/23/11 12:11	5
Total Organic Carbon	**14000**		1000	500	ug/L			05/17/11 21:11	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:35	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:35	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:35	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:35	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:35	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:35	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:35	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:35	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:35	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:35	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:35	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:35	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Diethyl ether	**700**	**E**	10	1.0	ug/L			05/06/11 04:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:35	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:35	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 04:35	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 04:35	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:35	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:35	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:35	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:35	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:35	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:35	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:35	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:35	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 04:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:35	1

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:35	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:35	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:35	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrahydrofuran	*2.6*	*J N T*	*ug/L*		*3.30*	*109-99-9*		*05/06/11 04:35*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 04:35*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/06/11 04:35*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 04:35*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 04:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/06/11 14:45	20
Acetonitrile	800	U	800	200	ug/L			05/06/11 14:45	20
Acrolein	400	U	400	150	ug/L			05/06/11 14:45	20
Acrylonitrile	400	U	400	140	ug/L			05/06/11 14:45	20
Allyl chloride	20	U	20	4.0	ug/L			05/06/11 14:45	20
Benzene	20	U	20	5.0	ug/L			05/06/11 14:45	20
Benzyl chloride	20	U	20	20	ug/L			05/06/11 14:45	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
Bromoform	20	U	20	10	ug/L			05/06/11 14:45	20
Bromomethane	20	U	20	16	ug/L			05/06/11 14:45	20
2-Butanone	200	U	200	20	ug/L			05/06/11 14:45	20
Carbon disulfide	40	U	40	12	ug/L			05/06/11 14:45	20
Carbon tetrachloride	20	U	20	10	ug/L			05/06/11 14:45	20
Chlorobenzene	20	U	20	5.0	ug/L			05/06/11 14:45	20
Chloroethane	20	U	20	20	ug/L			05/06/11 14:45	20
Chloroform	20	U	20	2.8	ug/L			05/06/11 14:45	20
Chloromethane	20	U	20	6.6	ug/L			05/06/11 14:45	20
Chloroprene	20	U	20	6.0	ug/L			05/06/11 14:45	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/06/11 14:45	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/06/11 14:45	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/06/11 14:45	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/06/11 14:45	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
Dibromomethane	20	U	20	4.0	ug/L			05/06/11 14:45	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/06/11 14:45	20

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/06/11 14:45	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/06/11 14:45	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/06/11 14:45	20
Diethyl ether	**650**	**D**	200	20	ug/L			05/06/11 14:45	20
Ethylbenzene	20	U	20	2.2	ug/L			05/06/11 14:45	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/06/11 14:45	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/06/11 14:45	20
2-Hexanone	200	U	200	20	ug/L			05/06/11 14:45	20
Iodomethane	100	U	100	20	ug/L			05/06/11 14:45	20
Isobutyl alcohol	800	U	800	220	ug/L			05/06/11 14:45	20
Methacrylonitrile	400	U	400	66	ug/L			05/06/11 14:45	20
Methylene Chloride	100	U	100	20	ug/L			05/06/11 14:45	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/06/11 14:45	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/06/11 14:45	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/06/11 14:45	20
n-Heptane	20	U	20	8.4	ug/L			05/06/11 14:45	20
Pentachloroethane	100	U	100	24	ug/L			05/06/11 14:45	20
Propionitrile	400	U	400	92	ug/L			05/06/11 14:45	20
Propylene oxide	4000	U	4000	4000	ug/L			05/06/11 14:45	20
Styrene	20	U	20	2.2	ug/L			05/06/11 14:45	20
t-Butanol	100	U	100	52	ug/L			05/06/11 14:45	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/06/11 14:45	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/06/11 14:45	20
Tetrachloroethene	20	U	20	3.0	ug/L			05/06/11 14:45	20
Toluene	20	U	20	6.6	ug/L			05/06/11 14:45	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/06/11 14:45	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/06/11 14:45	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/06/11 14:45	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/06/11 14:45	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/06/11 14:45	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/06/11 14:45	20
Trichloroethylene	20	U	20	2.6	ug/L			05/06/11 14:45	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/06/11 14:45	20
Vinyl acetate	40	U	40	5.6	ug/L			05/06/11 14:45	20
Vinyl chloride	20	U	20	3.6	ug/L			05/06/11 14:45	20
Xylenes, Total	40	U	40	4.0	ug/L			05/06/11 14:45	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 14:45*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/06/11 14:45*	*20*
Dibromofluoromethane	*98*		*70 - 130*		*05/06/11 14:45*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 14:45*	*20*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Acenaphthylene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Acetophenone	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
alpha,alpha-Dimethyl phenethylamine	9.7	U	9.7	3.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 16:46	1
Aniline	1.9	U	1.9	0.94	ug/L		05/06/11 14:51	06/02/11 16:46	1
Anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[a]anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[a]pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[b]fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[k]fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzyl alcohol	0.97	U	0.97	0.14	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,1'-Biphenyl	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-chloroethoxy)methane	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-chloroethyl)ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Bromophenyl phenyl ether	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
Butyl benzyl phthalate	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chloro-3-methylphenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Chloronaphthalene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Chlorophenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chlorophenyl phenyl ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Chrysene	0.19	U	0.19	0.044	ug/L		05/06/11 14:51	06/02/11 16:46	1
Diallate	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dibenzofuran	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2-Dichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,3-Dichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,4-Dichlorobenzene	**0.67**	**J B**	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dichlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,6-Dichlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Diethyl phthalate	0.97	U	0.97	0.11	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
7,12-Dimethylbenz(a)anthracene	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dimethylphenol	1.9	U	1.9	0.67	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dimethyl phthalate	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Di-n-butyl phthalate	0.97	U	0.97	0.38	ug/L		05/06/11 14:51	06/02/11 16:46	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dinitrophenol	9.7	U	9.7	1.1	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dinitrotoluene	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,6-Dinitrotoluene	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
Di-n-octyl phthalate	0.97	U	0.97	0.16	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,4-Dioxane	**2.7**		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 16:46	1
Disulfoton	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Ethyl methanesulfonate	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Ethyl Parathion	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Famphur	0.97	U *	0.97	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Fluorene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorobutadiene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachloroethane	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachloropropene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Isophorone	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Isosafrole	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
m-Dinitrobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methapyrilene	190	U	190	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
3-Methylcholanthrene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methyl methanesulfonate	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Methylnaphthalene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methyl parathion	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Methylphenol	1.9	U	1.9	0.72	ug/L		05/06/11 14:51	06/02/11 16:46	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		05/06/11 14:51	06/02/11 16:46	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
Naphthalene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,4-Naphthoquinone	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Nitroaniline	0.97	U	0.97	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Nitrobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
5-Nitro-o-toluidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Nitrophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodiethylamine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodimethylamine	0.97	U	0.97	0.24	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodi-n-butylamine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodi-n-propylamine	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodiphenylamine	0.97	U	0.97	0.36	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosomorpholine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosopiperidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosopyrrolidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
o,o',o''-Triethylphosphorothioate	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
o-Toluidine	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,2'-oxybis[1-chloropropane]	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachloronitrobenzene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenacetin	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenanthrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenol	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenyl ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phorate	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Picoline	1.9	U	1.9	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pronamide	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pyridine	4.8	U	4.8	0.71	ug/L		05/06/11 14:51	06/02/11 16:46	1
Safrole, Total	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Sulfotepp	0.97	U	0.97	0.14	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2,4,5-Tetrachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,3,4,6-Tetrachlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Thionazin	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2,4-Trichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4,5-Trichlorophenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4,6-Trichlorophenol	0.97	U	0.97	0.16	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,3,5-Trinitrobenzene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*19*	*T J*	*ug/L*		*6.12*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*180*	*T J*	*ug/L*		*7.12*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*10*	*T J*	*ug/L*		*8.60*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*150*	*T J*	*ug/L*		*8.69*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*15*	*T J*	*ug/L*		*9.04*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*80*	*T J*	*ug/L*		*9.26*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown Organic Acid	*64*	*T J*	*ug/L*		*9.33*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*52*	*T J*	*ug/L*		*10.10*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*30*	*T J*	*ug/L*		*10.53*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*20*	*T J*	*ug/L*		*10.60*		*05/06/11 14:51*	*06/02/11 16:46*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*34 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
2-Fluorophenol	*57*		*25 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
Nitrobenzene-d5	*53*		*32 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
Phenol-d5	*46*		*27 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
Terphenyl-d14	*52*		*36 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
2,4,6-Tribromophenol	*62*		*30 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 04:40	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 03:34	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 03:34	1
Methanol	**160000**		20000	17000	ug/L			05/13/11 11:35	20

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**88**	**J**	100	50	ug/L		05/05/11 11:21	05/11/11 14:41	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
Arsenic	**5.7**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:41	1
Barium	**140**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:41	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:41	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:41	1
Calcium	**120000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:41	1
Chromium	**4.8**	**J**	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:41	1
Cobalt	**9.6**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:41	1
Copper	**2.7**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:41	1
Iron	**13000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:41	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:41	1
Magnesium	**31000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:41	1
Manganese	**2100**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
Mercury	8.0	U	8.0	4.0	ug/L		05/05/11 11:21	05/11/11 08:24	10
Nickel	**8.9**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
Potassium	**6600**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 14:41	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:41	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:41	1
Sodium	**1900000**		5000	1700	ug/L		05/05/11 11:21	05/11/11 08:24	10
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:41	1
Vanadium	**240**		10	3.2	ug/L		05/05/11 11:21	05/11/11 14:41	1
Zinc	**10**	**J**	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000000**		50000	9000	ug/L			05/21/11 13:03	50
Nitrogen, Kjeldahl	**2400**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	**28**	**J**	50	10	ug/L			04/30/11 22:30	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:30	1
Sulfate	**390000**		100000	50000	ug/L			05/23/11 12:40	20
Total Organic Carbon	**26000**		1000	500	ug/L			05/17/11 21:31	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 15:25	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 15:25	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 15:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 15:25	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 15:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 15:25	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 15:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 15:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 15:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 15:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 15:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 15:25	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 15:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 15:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 15:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 15:25	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 15:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 15:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 15:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 15:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 15:25	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 15:25	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 15:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 15:25	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 15:25	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 15:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 15:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 15:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:25	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 15:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 15:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 15:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 15:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 15:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 15:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 15:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 15:25*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/04/11 15:25*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/04/11 15:25*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/04/11 15:25*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Acetophenone	**0.17**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 17:14	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 17:14	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 17:14	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Dichlorobenzene	**0.44**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 17:14	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Dioxane	1.9	U	1.9	0.29	ug/L		05/06/11 14:51	06/02/11 17:14	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 17:14	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 17:14	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 17:14	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Pentanone, 4-hydroxy-4-methyl-	*8.9*	*T J N*	*ug/L*		*2.90*	*123-42-2*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*2.4*	*T J*	*ug/L*		*2.94*		*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*3.5*	*T J*	*ug/L*		*4.09*		*05/06/11 14:51*	*06/02/11 17:14*	*1*
Sulfur, mol. (S8)	*2.1*	*T J N*	*ug/L*		*10.98*	*10544-50-0*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*4.4*	*T J*	*ug/L*		*11.43*		*05/06/11 14:51*	*06/02/11 17:14*	*1*
Octadecanoic acid, butyl ester	*3.7*	*T J N*	*ug/L*		*12.28*	*123-95-5*	*05/06/11 14:51*	*06/02/11 17:14*	*1*

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD BLANK

Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tetracosane	1.1	T J N	ug/L		12.33	646-31-1	05/06/11 14:51	06/02/11 17:14	1
Heptadecane, 9-octyl-	1.1	T J N	ug/L		13.11	7225-64-1	05/06/11 14:51	06/02/11 17:14	1
Unknown	2.1	T J	ug/L		15.88		05/06/11 14:51	06/02/11 17:14	1
Unknown	3.0	T J	ug/L		17.21		05/06/11 14:51	06/02/11 17:14	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		34 - 130	05/06/11 14:51	06/02/11 17:14	1
2-Fluorophenol	63		25 - 130	05/06/11 14:51	06/02/11 17:14	1
Nitrobenzene-d5	55		32 - 130	05/06/11 14:51	06/02/11 17:14	1
Phenol-d5	48		27 - 130	05/06/11 14:51	06/02/11 17:14	1
Terphenyl-d14	66		36 - 130	05/06/11 14:51	06/02/11 17:14	1
2,4,6-Tribromophenol	56		30 - 130	05/06/11 14:51	06/02/11 17:14	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 05:04	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 03:58	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 03:58	1
Methanol	1000	U	1000	830	ug/L			05/13/11 03:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 08:31	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:31	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:31	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:31	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:31	1
Calcium	**380**	**J**	500	170	ug/L		05/05/11 11:21	05/11/11 08:31	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:31	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:31	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:31	1
Iron	100	U	100	44	ug/L		05/05/11 11:21	05/11/11 08:31	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:31	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 08:31	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:31	1
Nickel	**2.1**	**J**	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Potassium	1000	U	1000	330	ug/L		05/05/11 11:21	05/11/11 08:31	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:31	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:31	1
Sodium	**400**	**J**	500	170	ug/L		05/05/11 11:21	05/11/11 08:31	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:31	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:31	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/21/11 12:54	1
Nitrogen, Kjeldahl	**290**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	**1100**		50	10	ug/L			04/30/11 22:31	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:31	1
Sulfate	**4200**	**J**	5000	2500	ug/L			05/23/11 11:19	1
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 21:49	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 05:21	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 05:21	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 05:21	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 05:21	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 05:21	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 05:21	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 05:21	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 05:21	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 05:21	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 05:21	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 05:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 05:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 05:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 05:21	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 05:21	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
Diethyl ether	**220**	**E**	10	1.0	ug/L			05/06/11 05:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 05:21	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 05:21	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 05:21	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 05:21	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 05:21	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 05:21	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 05:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 05:21	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 05:21	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 05:21	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 05:21	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 05:21	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 05:21	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
t-Butanol	**160**	**E**	5.0	2.6	ug/L			05/06/11 05:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 05:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 05:21	1

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 05:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 05:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 05:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 05:21	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 05:21	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 05:21	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 05:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 05:21*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/06/11 05:21*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/06/11 05:21*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 05:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/06/11 15:13	5
Acetonitrile	200	U	200	50	ug/L			05/06/11 15:13	5
Acrolein	100	U	100	37	ug/L			05/06/11 15:13	5
Acrylonitrile	100	U	100	36	ug/L			05/06/11 15:13	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
Benzene	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/06/11 15:13	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/06/11 15:13	5
2-Butanone	50	U	50	5.0	ug/L			05/06/11 15:13	5
Carbon disulfide	10	U	10	3.0	ug/L			05/06/11 15:13	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/06/11 15:13	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/06/11 15:13	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/06/11 15:13	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 15:13	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/06/11 15:13	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/06/11 15:13	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/06/11 15:13	5

Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Date Collected: 04/29/11 00:00

Matrix: Water

Date Received: 04/30/11 10:50

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Diethyl ether	**220**	**D**	50	5.0	ug/L			05/06/11 15:13	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/06/11 15:13	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
2-Hexanone	50	U	50	5.0	ug/L			05/06/11 15:13	5
Iodomethane	25	U	25	5.0	ug/L			05/06/11 15:13	5
Isobutyl alcohol	200	U	200	55	ug/L			05/06/11 15:13	5
Methacrylonitrile	100	U	100	16	ug/L			05/06/11 15:13	5
Methylene Chloride	25	U	25	5.0	ug/L			05/06/11 15:13	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/06/11 15:13	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/06/11 15:13	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/06/11 15:13	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/06/11 15:13	5
Pentachloroethane	25	U	25	6.0	ug/L			05/06/11 15:13	5
Propionitrile	100	U	100	23	ug/L			05/06/11 15:13	5
Propylene oxide	1000	U	1000	1000	ug/L			05/06/11 15:13	5
Styrene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
t-Butanol	**180**	**D**	25	13	ug/L			05/06/11 15:13	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/06/11 15:13	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 15:13	5
Toluene	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/06/11 15:13	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/06/11 15:13	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/06/11 15:13	5
Vinyl acetate	10	U	10	1.4	ug/L			05/06/11 15:13	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/06/11 15:13	5
Xylenes, Total	10	U	10	1.0	ug/L			05/06/11 15:13	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 15:13*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/06/11 15:13*	*5*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 15:13*	*5*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/06/11 15:13*	*5*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Acetophenone	**0.10**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 17:42	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 17:42	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 17:42	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Dichlorobenzene	**0.39**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 17:42	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/06/11 14:51	06/02/11 17:42	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 17:42	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 17:42	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 17:42	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*45*	*T J*	*ug/L*		*4.96*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*55*	*T J*	*ug/L*		*5.32*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*100*	*T J*	*ug/L*		*6.17*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*83*	*T J*	*ug/L*		*6.61*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*48*	*T J*	*ug/L*		*6.65*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*36*	*T J*	*ug/L*		*7.11*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*41*	*T J*	*ug/L*		*8.67*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown Organic Acid	*37*	*T J*	*ug/L*		*9.07*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*41*	*T J*	*ug/L*		*9.25*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*30*	*T J*	*ug/L*		*9.33*		*05/06/11 14:51*	*06/02/11 17:42*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*34 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
2-Fluorophenol	*43*		*25 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
Nitrobenzene-d5	*47*		*32 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
Phenol-d5	*42*		*27 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
Terphenyl-d14	*68*		*36 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
2,4,6-Tribromophenol	*65*		*30 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 05:28	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 04:21	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 04:21	1
Methanol	1000	U	1000	830	ug/L			05/13/11 04:21	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**610**		100	50	ug/L		05/05/11 11:21	05/11/11 14:48	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Arsenic	**1.7**	**J**	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:48	1
Barium	**780**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:48	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:48	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD DUPLICATE

Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9

Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:48	1
Calcium	**180000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:48	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:48	1
Cobalt	**1.5**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:48	1
Copper	**1.9**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:48	1
Iron	**51000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:48	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:48	1
Magnesium	**39000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:48	1
Manganese	**2900**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:48	1
Nickel	**2.3**	**J**	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Potassium	**6800**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 14:48	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:48	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:48	1
Sodium	**710000**		1000	340	ug/L		05/05/11 11:21	05/11/11 08:38	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:48	1
Vanadium	**4.9**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:48	1
Zinc	**12**	**J**	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100000**		20000	3600	ug/L			05/21/11 12:49	20
Nitrogen, Kjeldahl	**3300**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	**350**		50	10	ug/L			04/30/11 22:32	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:32	1
Sulfate	**130000**		25000	12000	ug/L			05/23/11 12:09	5
Total Organic Carbon	**15000**		1000	500	ug/L			05/17/11 22:08	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:58	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:58	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:58	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:58	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:58	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:58	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:58	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:58	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:58	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:58	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:58	1
cis-1,2-Dichloroethene	**0.99**	**J**	1.0	0.15	ug/L			05/06/11 04:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:58	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:58	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Diethyl ether	**5600**	**E**	10	1.0	ug/L			05/06/11 04:58	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:58	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:58	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 04:58	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 04:58	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:58	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:58	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:58	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:58	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:58	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:58	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:58	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:58	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 04:58	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:58	1

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:58	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:58	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:58	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:58	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:58	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*8.4*	*T J N*	*ug/L*		*2.01*			*05/06/11 04:58*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/06/11 04:58*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/06/11 04:58*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 04:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5000	U	5000	1000	ug/L			05/06/11 17:37	200
Acetonitrile	8000	U	8000	2000	ug/L			05/06/11 17:37	200
Acrolein	4000	U	4000	1500	ug/L			05/06/11 17:37	200
Acrylonitrile	4000	U	4000	1400	ug/L			05/06/11 17:37	200
Allyl chloride	200	U	200	40	ug/L			05/06/11 17:37	200
Benzene	200	U	200	50	ug/L			05/06/11 17:37	200
Benzyl chloride	200	U	200	200	ug/L			05/06/11 17:37	200
Bromodichloromethane	200	U	200	50	ug/L			05/06/11 17:37	200
Bromoform	200	U	200	100	ug/L			05/06/11 17:37	200
Bromomethane	200	U	200	160	ug/L			05/06/11 17:37	200
2-Butanone	2000	U	2000	200	ug/L			05/06/11 17:37	200
Carbon disulfide	400	U	400	120	ug/L			05/06/11 17:37	200
Carbon tetrachloride	200	U	200	100	ug/L			05/06/11 17:37	200
Chlorobenzene	200	U	200	50	ug/L			05/06/11 17:37	200
Chloroethane	200	U	200	200	ug/L			05/06/11 17:37	200
Chloroform	200	U	200	28	ug/L			05/06/11 17:37	200
Chloromethane	200	U	200	66	ug/L			05/06/11 17:37	200
Chloroprene	200	U	200	60	ug/L			05/06/11 17:37	200
cis-1,2-Dichloroethene	200	U	200	30	ug/L			05/06/11 17:37	200
cis-1,3-Dichloropropene	200	U	200	22	ug/L			05/06/11 17:37	200
Dibromochloromethane	200	U	200	20	ug/L			05/06/11 17:37	200
1,2-Dibromo-3-Chloropropane	200	U	200	88	ug/L			05/06/11 17:37	200
1,2-Dibromoethane	200	U	200	50	ug/L			05/06/11 17:37	200
Dibromomethane	200	U	200	40	ug/L			05/06/11 17:37	200
Dichlorodifluoromethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,1-Dichloroethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,2-Dichloroethane	200	U	200	20	ug/L			05/06/11 17:37	200

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	200	U	200	22	ug/L			05/06/11 17:37	200
1,2-Dichloropropane	200	U	200	26	ug/L			05/06/11 17:37	200
Diethyl ether	**10000**	**D**	2000	200	ug/L			05/06/11 17:37	200
Ethylbenzene	200	U	200	22	ug/L			05/06/11 17:37	200
Ethylene oxide	40000	U	40000	40000	ug/L			05/06/11 17:37	200
Ethyl methacrylate	200	U	200	50	ug/L			05/06/11 17:37	200
2-Hexanone	2000	U	2000	200	ug/L			05/06/11 17:37	200
Iodomethane	1000	U	1000	200	ug/L			05/06/11 17:37	200
Isobutyl alcohol	8000	U	8000	2200	ug/L			05/06/11 17:37	200
Methacrylonitrile	4000	U	4000	660	ug/L			05/06/11 17:37	200
Methylene Chloride	1000	U	1000	200	ug/L			05/06/11 17:37	200
Methyl methacrylate	200	U	200	96	ug/L			05/06/11 17:37	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			05/06/11 17:37	200
Methyl tert-butyl ether	2000	U	2000	40	ug/L			05/06/11 17:37	200
n-Heptane	200	U	200	84	ug/L			05/06/11 17:37	200
Pentachloroethane	1000	U	1000	240	ug/L			05/06/11 17:37	200
Propionitrile	4000	U	4000	920	ug/L			05/06/11 17:37	200
Propylene oxide	40000	U	40000	40000	ug/L			05/06/11 17:37	200
Styrene	200	U	200	22	ug/L			05/06/11 17:37	200
t-Butanol	1000	U	1000	520	ug/L			05/06/11 17:37	200
1,1,1,2-Tetrachloroethane	200	U	200	66	ug/L			05/06/11 17:37	200
1,1,2,2-Tetrachloroethane	200	U	200	36	ug/L			05/06/11 17:37	200
Tetrachloroethene	200	U	200	30	ug/L			05/06/11 17:37	200
Toluene	200	U	200	66	ug/L			05/06/11 17:37	200
trans-1,4-Dichloro-2-butene	400	U	400	100	ug/L			05/06/11 17:37	200
trans-1,2-Dichloroethene	200	U	200	40	ug/L			05/06/11 17:37	200
trans-1,3-Dichloropropene	200	U	200	42	ug/L			05/06/11 17:37	200
1,2,3-Trichlorobenzene	200	U	200	70	ug/L			05/06/11 17:37	200
1,1,1-Trichloroethane	200	U	200	100	ug/L			05/06/11 17:37	200
1,1,2-Trichloroethane	200	U	200	26	ug/L			05/06/11 17:37	200
Trichloroethylene	200	U	200	26	ug/L			05/06/11 17:37	200
Trichlorofluoromethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,2,3-Trichloropropane	200	U	200	82	ug/L			05/06/11 17:37	200
Vinyl acetate	400	U	400	56	ug/L			05/06/11 17:37	200
Vinyl chloride	200	U	200	36	ug/L			05/06/11 17:37	200
Xylenes, Total	400	U	400	40	ug/L			05/06/11 17:37	200

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Naphthalene, 1-methyl-	*3400*	*T J N*	*ug/L*		*6.58*	*90-12-0*		*05/06/11 17:37*	*200*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*05/06/11 17:37*	*200*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 17:37*	*200*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 17:37*	*200*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 18:09	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 18:09	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-chloroethyl)ether	**0.22**	**J**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 18:09	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,4-Dichlorobenzene	**0.29**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 18:09	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,4-Dioxane	**21**		1.9	0.29	ug/L		05/06/11 14:51	06/02/11 18:09	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 18:09	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 18:09	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 18:09	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*8.1*	*T A J*	*ug/L*		*2.90*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*9.3*	*T J*	*ug/L*		*4.09*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*6.2*	*T J*	*ug/L*		*4.87*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*100*	*T J*	*ug/L*		*5.32*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*4.8*	*T J*	*ug/L*		*6.09*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*5.6*	*T J*	*ug/L*		*6.53*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*91*	*T J*	*ug/L*		*7.10*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*49*	*T J*	*ug/L*		*8.66*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown	*12*	*T J*	*ug/L*		*10.07*		*05/06/11 14:51*	*06/02/11 18:09*	*1*
Unknown Organic Acid	*4.0*	*T J*	*ug/L*		*11.22*		*05/06/11 14:51*	*06/02/11 18:09*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
2-Fluorophenol	*61*		*25 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
Nitrobenzene-d5	*57*		*32 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
Phenol-d5	*41*		*27 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
Terphenyl-d14	*71*		*36 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
2,4,6-Tribromophenol	*73*		*30 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U *	1000	220	ug/L			05/13/11 21:08	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 04:45	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 04:45	1
Methanol	**120000**		2000	1700	ug/L			05/13/11 11:59	2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**840**		100	50	ug/L		05/05/11 11:21	05/11/11 08:45	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:45	1
Arsenic	**4.0**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:45	1
Barium	**180**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:45	1
Beryllium	**0.63**		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:45	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.16	J	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:45	1
Calcium	260000		500	170	ug/L		05/05/11 11:21	05/11/11 08:45	1
Chromium	3.4	J	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:45	1
Cobalt	33		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:45	1
Copper	12		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:45	1
Iron	150000		100	44	ug/L		05/05/11 11:21	05/11/11 08:45	1
Lead	0.60	J	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:45	1
Magnesium	88000		250	100	ug/L		05/05/11 11:21	05/11/11 08:45	1
Manganese	9600		10	4.0	ug/L		05/05/11 11:21	05/12/11 13:54	2
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:45	1
Nickel	7.5		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:45	1
Potassium	5000	B	1000	330	ug/L		05/05/11 11:21	05/11/11 08:45	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:45	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:45	1
Sodium	380000		500	170	ug/L		05/05/11 11:21	05/11/11 08:45	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:45	1
Vanadium	3.8	J	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:45	1
Zinc	31		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000000		20000	3600	ug/L			05/21/11 12:49	20
Nitrogen, Kjeldahl	990		200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1
Nitrate as N	150		50	10	ug/L			04/30/11 22:33	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:33	1
Sulfate	420000		100000	50000	ug/L			05/23/11 12:42	20
Total Organic Carbon	4800		1000	500	ug/L			05/17/11 22:28	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: TRIP BLANK 4
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 14:56	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 14:56	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 14:56	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 14:56	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 14:56	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 14:56	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 14:56	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 14:56	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 14:56	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 14:56	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 14:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 14:56	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:56	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 14:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 14:56	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 14:56	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 14:56	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 14:56	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 14:56	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 14:56	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 14:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 14:56	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 14:56	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 14:56	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 14:56	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 14:56	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 14:56	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 14:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 14:56	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:56	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: TRIP BLANK 4
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 14:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 14:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 14:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 14:56	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 14:56	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 14:56	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 14:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 14:56*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/04/11 14:56*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/04/11 14:56*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 14:56*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U *	1000	220	ug/L			05/13/11 21:32	1
Ethanol	1000	U H	1000	330	ug/L			06/07/11 16:31	1
Isopropanol	1000	U H	1000	300	ug/L			06/07/11 16:31	1
Methanol	1000	U H	1000	830	ug/L			06/07/11 16:31	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/07/11 15:55	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 15:55	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 15:55	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 15:55	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 15:55	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 15:55	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 15:55	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 15:55	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 15:55	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 15:55	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 15:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 15:55	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
1,1-Dichloroethane	**0.95**	**J**	1.0	0.25	ug/L			05/07/11 15:55	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:55	1
1,1-Dichloroethene	**0.39**	**J**	1.0	0.11	ug/L			05/07/11 15:55	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 15:55	1
Diethyl ether	**1600**	**E**	10	1.0	ug/L			05/07/11 15:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 15:55	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 15:55	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 15:55	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 15:55	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 15:55	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 15:55	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 15:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 15:55	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 15:55	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 15:55	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 15:55	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 15:55	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 15:55	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 15:55	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 15:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:55	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 15:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 15:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 15:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 15:55	1
Trichloroethylene	**0.15**	**J**	1.0	0.13	ug/L			05/07/11 15:55	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 15:55	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 15:55	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 15:55	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 15:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/07/11 15:55*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/07/11 15:55*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*05/07/11 15:55*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/07/11 15:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/08/11 17:04	50
Acetonitrile	2000	U	2000	500	ug/L			05/08/11 17:04	50
Acrolein	1000	U	1000	370	ug/L			05/08/11 17:04	50
Acrylonitrile	1000	U	1000	360	ug/L			05/08/11 17:04	50
Allyl chloride	50	U	50	10	ug/L			05/08/11 17:04	50
Benzene	50	U	50	12	ug/L			05/08/11 17:04	50
Benzyl chloride	50	U	50	50	ug/L			05/08/11 17:04	50
Bromodichloromethane	50	U	50	12	ug/L			05/08/11 17:04	50
Bromoform	50	U	50	25	ug/L			05/08/11 17:04	50
Bromomethane	50	U	50	40	ug/L			05/08/11 17:04	50
2-Butanone	500	U	500	50	ug/L			05/08/11 17:04	50
Carbon disulfide	100	U	100	30	ug/L			05/08/11 17:04	50
Carbon tetrachloride	50	U	50	25	ug/L			05/08/11 17:04	50
Chlorobenzene	50	U	50	12	ug/L			05/08/11 17:04	50
Chloroethane	50	U	50	50	ug/L			05/08/11 17:04	50
Chloroform	50	U	50	7.0	ug/L			05/08/11 17:04	50
Chloromethane	50	U	50	16	ug/L			05/08/11 17:04	50
Chloroprene	50	U	50	15	ug/L			05/08/11 17:04	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/08/11 17:04	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/08/11 17:04	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/08/11 17:04	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/08/11 17:04	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/08/11 17:04	50
Dibromomethane	50	U	50	10	ug/L			05/08/11 17:04	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/08/11 17:04	50

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/08/11 17:04	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/08/11 17:04	50
Diethyl ether	**1700**	**D**	500	50	ug/L			05/08/11 17:04	50
Ethylbenzene	50	U	50	5.5	ug/L			05/08/11 17:04	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/08/11 17:04	50
Ethyl methacrylate	50	U	50	12	ug/L			05/08/11 17:04	50
2-Hexanone	500	U	500	50	ug/L			05/08/11 17:04	50
Iodomethane	250	U	250	50	ug/L			05/08/11 17:04	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/08/11 17:04	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/08/11 17:04	50
Methylene Chloride	250	U	250	50	ug/L			05/08/11 17:04	50
Methyl methacrylate	50	U	50	24	ug/L			05/08/11 17:04	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/08/11 17:04	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/08/11 17:04	50
n-Heptane	50	U	50	21	ug/L			05/08/11 17:04	50
Pentachloroethane	250	U	250	60	ug/L			05/08/11 17:04	50
Propionitrile	1000	U	1000	230	ug/L			05/08/11 17:04	50
Propylene oxide	10000	U	10000	10000	ug/L			05/08/11 17:04	50
Styrene	50	U	50	5.5	ug/L			05/08/11 17:04	50
t-Butanol	250	U	250	130	ug/L			05/08/11 17:04	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/08/11 17:04	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/08/11 17:04	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/08/11 17:04	50
Toluene	50	U	50	16	ug/L			05/08/11 17:04	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/08/11 17:04	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/08/11 17:04	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/08/11 17:04	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/08/11 17:04	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/08/11 17:04	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/08/11 17:04	50
Trichloroethylene	50	U	50	6.5	ug/L			05/08/11 17:04	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/08/11 17:04	50
Vinyl acetate	100	U	100	14	ug/L			05/08/11 17:04	50
Vinyl chloride	50	U	50	9.0	ug/L			05/08/11 17:04	50
Xylenes, Total	100	U	100	10	ug/L			05/08/11 17:04	50

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/08/11 17:04*	*50*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/08/11 17:04*	*50*
Dibromofluoromethane	*98*		*70 - 130*		*05/08/11 17:04*	*50*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/08/11 17:04*	*50*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 18:37	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 18:37	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 18:37	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,4-Dichlorobenzene	**0.37**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 18:37	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,4-Dioxane	**9.6**		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 18:37	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 18:37	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 18:37	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 18:37	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*2.6*	*T A J*	*ug/L*		*2.95*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*1.5*	*T J*	*ug/L*		*5.23*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*1.1*	*T J*	*ug/L*		*5.47*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*40*	*T J*	*ug/L*		*7.09*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Diethyltoluamide	*2.0*	*T J N*	*ug/L*		*8.45*	*134-62-3*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*4.2*	*T J*	*ug/L*		*8.65*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Sulfur, mol. (S8)	*7.6*	*T J N*	*ug/L*		*10.98*	*10544-50-0*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Oleic Acid	*5.2*	*T J N*	*ug/L*		*11.22*	*112-80-1*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*3.8*	*T J*	*ug/L*		*11.43*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Octadecanoic acid, 2-methylpropyl ester	*2.8*	*T J N*	*ug/L*		*12.28*	*646-13-9*	*05/06/11 14:51*	*06/02/11 18:37*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
2-Fluorophenol	*58*		*25 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Nitrobenzene-d5	*58*		*32 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Phenol-d5	*49*		*27 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Terphenyl-d14	*73*		*36 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
2,4,6-Tribromophenol	*74*		*30 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U H	1000	220	ug/L			05/26/11 16:00	1
Ethanol	**1700**	**H**	1000	330	ug/L			05/17/11 17:26	1
Isopropanol	1000	U H	1000	300	ug/L			05/17/11 17:26	1
Methanol	1000	U H	1000	830	ug/L			05/17/11 17:26	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**60**	**J**	100	50	ug/L		05/05/11 11:21	05/11/11 08:52	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:52	1
Barium	**65**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:52	1
Beryllium	**0.16**	**J**	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:52	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:52	1
Calcium	**180000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:52	1
Chromium	**14**		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:52	1
Cobalt	**1.1**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:52	1
Copper	**10**		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:52	1
Iron	**8600**		100	44	ug/L		05/05/11 11:21	05/11/11 08:52	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:52	1
Magnesium	**50000**		250	100	ug/L		05/05/11 11:21	05/11/11 08:52	1
Manganese	**3000**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:52	1
Nickel	**9.5**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Potassium	**4400**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 08:52	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:52	1
Silver	**0.36**	**J**	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:52	1
Sodium	**260000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:52	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:52	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:52	1
Zinc	**31**		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220000**		5000	900	ug/L			05/21/11 12:55	5
Nitrogen, Kjeldahl	**280**		200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1
Nitrate as N	**19**	**J**	50	10	ug/L			05/03/11 18:30	1
Nitrite as N	50	U	50	10	ug/L			05/03/11 18:30	1
Sulfate	**710000**		250000	120000	ug/L			05/23/11 12:42	50
Total Organic Carbon	**3700**		1000	500	ug/L			05/17/11 22:46	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.1**	**J**	25	5.0	ug/L			05/07/11 16:24	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 16:24	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 16:24	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 16:24	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 16:24	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 16:24	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 16:24	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 16:24	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 16:24	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 16:24	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 16:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 16:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 16:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 16:24	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 16:24	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Diethyl ether	**1.4**	**J**	10	1.0	ug/L			05/07/11 16:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 16:24	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 16:24	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 16:24	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 16:24	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 16:24	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 16:24	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 16:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 16:24	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 16:24	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 16:24	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 16:24	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 16:24	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 16:24	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
t-Butanol	**370**	**E**	5.0	2.6	ug/L			05/07/11 16:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 16:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 16:24	1

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 16:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 16:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 16:24	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 16:24	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 16:24	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 16:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/07/11 16:24*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/07/11 16:24*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/07/11 16:24*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/07/11 16:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	50	ug/L			05/08/11 17:32	10
Acetonitrile	400	U	400	100	ug/L			05/08/11 17:32	10
Acrolein	200	U	200	74	ug/L			05/08/11 17:32	10
Acrylonitrile	200	U	200	72	ug/L			05/08/11 17:32	10
Allyl chloride	10	U	10	2.0	ug/L			05/08/11 17:32	10
Benzene	10	U	10	2.5	ug/L			05/08/11 17:32	10
Benzyl chloride	10	U	10	10	ug/L			05/08/11 17:32	10
Bromodichloromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
Bromoform	10	U	10	5.0	ug/L			05/08/11 17:32	10
Bromomethane	10	U	10	8.0	ug/L			05/08/11 17:32	10
2-Butanone	100	U	100	10	ug/L			05/08/11 17:32	10
Carbon disulfide	20	U	20	6.0	ug/L			05/08/11 17:32	10
Carbon tetrachloride	10	U	10	5.0	ug/L			05/08/11 17:32	10
Chlorobenzene	10	U	10	2.5	ug/L			05/08/11 17:32	10
Chloroethane	10	U	10	10	ug/L			05/08/11 17:32	10
Chloroform	10	U	10	1.4	ug/L			05/08/11 17:32	10
Chloromethane	10	U	10	3.3	ug/L			05/08/11 17:32	10
Chloroprene	10	U	10	3.0	ug/L			05/08/11 17:32	10
cis-1,2-Dichloroethene	10	U	10	1.5	ug/L			05/08/11 17:32	10
cis-1,3-Dichloropropene	10	U	10	1.1	ug/L			05/08/11 17:32	10
Dibromochloromethane	10	U	10	1.0	ug/L			05/08/11 17:32	10
1,2-Dibromo-3-Chloropropane	10	U	10	4.4	ug/L			05/08/11 17:32	10
1,2-Dibromoethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
Dibromomethane	10	U	10	2.0	ug/L			05/08/11 17:32	10
Dichlorodifluoromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,2-Dichloroethane	10	U	10	1.0	ug/L			05/08/11 17:32	10

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	10	U	10	1.1	ug/L			05/08/11 17:32	10
1,2-Dichloropropane	10	U	10	1.3	ug/L			05/08/11 17:32	10
Diethyl ether	100	U	100	10	ug/L			05/08/11 17:32	10
Ethylbenzene	10	U	10	1.1	ug/L			05/08/11 17:32	10
Ethylene oxide	2000	U	2000	2000	ug/L			05/08/11 17:32	10
Ethyl methacrylate	10	U	10	2.5	ug/L			05/08/11 17:32	10
2-Hexanone	100	U	100	10	ug/L			05/08/11 17:32	10
Iodomethane	50	U	50	10	ug/L			05/08/11 17:32	10
Isobutyl alcohol	400	U	400	110	ug/L			05/08/11 17:32	10
Methacrylonitrile	200	U	200	33	ug/L			05/08/11 17:32	10
Methylene Chloride	50	U	50	10	ug/L			05/08/11 17:32	10
Methyl methacrylate	10	U	10	4.8	ug/L			05/08/11 17:32	10
4-Methyl-2-pentanone (MIBK)	100	U	100	10	ug/L			05/08/11 17:32	10
Methyl tert-butyl ether	100	U	100	2.0	ug/L			05/08/11 17:32	10
n-Heptane	10	U	10	4.2	ug/L			05/08/11 17:32	10
Pentachloroethane	50	U	50	12	ug/L			05/08/11 17:32	10
Propionitrile	200	U	200	46	ug/L			05/08/11 17:32	10
Propylene oxide	2000	U	2000	2000	ug/L			05/08/11 17:32	10
Styrene	10	U	10	1.1	ug/L			05/08/11 17:32	10
t-Butanol	**370**	**D**	50	26	ug/L			05/08/11 17:32	10
1,1,1,2-Tetrachloroethane	10	U	10	3.3	ug/L			05/08/11 17:32	10
1,1,2,2-Tetrachloroethane	10	U	10	1.8	ug/L			05/08/11 17:32	10
Tetrachloroethene	10	U	10	1.5	ug/L			05/08/11 17:32	10
Toluene	10	U	10	3.3	ug/L			05/08/11 17:32	10
trans-1,4-Dichloro-2-butene	20	U	20	5.0	ug/L			05/08/11 17:32	10
trans-1,2-Dichloroethene	10	U	10	2.0	ug/L			05/08/11 17:32	10
trans-1,3-Dichloropropene	10	U	10	2.1	ug/L			05/08/11 17:32	10
1,2,3-Trichlorobenzene	10	U	10	3.5	ug/L			05/08/11 17:32	10
1,1,1-Trichloroethane	10	U	10	5.0	ug/L			05/08/11 17:32	10
1,1,2-Trichloroethane	10	U	10	1.3	ug/L			05/08/11 17:32	10
Trichloroethylene	10	U	10	1.3	ug/L			05/08/11 17:32	10
Trichlorofluoromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,2,3-Trichloropropane	10	U	10	4.1	ug/L			05/08/11 17:32	10
Vinyl acetate	20	U	20	2.8	ug/L			05/08/11 17:32	10
Vinyl chloride	10	U	10	1.8	ug/L			05/08/11 17:32	10
Xylenes, Total	20	U	20	2.0	ug/L			05/08/11 17:32	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/08/11 17:32*	*10*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/08/11 17:32*	*10*
Dibromofluoromethane	*96*		*70 - 130*		*05/08/11 17:32*	*10*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/08/11 17:32*	*10*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U H	1000	220	ug/L			05/26/11 16:24	1
Ethanol	1000	U H	1000	330	ug/L			05/17/11 17:50	1
Isopropanol	1000	U H	1000	300	ug/L			05/17/11 17:50	1
Methanol	1000	U H	1000	830	ug/L			05/17/11 17:50	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**44000**		100	50	ug/L		05/05/11 11:21	05/11/11 08:59	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Arsenic	**15**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:59	1
Barium	**230**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:59	1
Beryllium	**2.2**		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:59	1
Cadmium	**0.20**	**J**	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:59	1
Calcium	**7900**		500	170	ug/L		05/05/11 11:21	05/11/11 08:59	1
Chromium	**78**		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:59	1
Cobalt	**14**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:59	1
Copper	**60**		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:59	1
Iron	**54000**		100	44	ug/L		05/05/11 11:21	05/11/11 08:59	1
Lead	**34**		1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:59	1
Magnesium	**6000**		250	100	ug/L		05/05/11 11:21	05/11/11 08:59	1
Manganese	**370**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:59	1
Nickel	**27**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Potassium	**2100**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 08:59	1
Selenium	**1.2**	**J**	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:59	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:59	1
Sodium	**120000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:59	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:59	1
Vanadium	**130**		10	3.2	ug/L		05/05/11 11:21	05/11/11 08:59	1
Zinc	**61**		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:59	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**170**		50	23	ug/L		05/05/11 12:02	05/11/11 12:42	1
Antimony	5.0	U	5.0	2.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Arsenic	**2.6**		2.5	1.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Barium	**39**		5.0	1.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Beryllium	0.50	U	0.50	0.25	ug/L		05/05/11 12:02	05/11/11 12:42	1
Cadmium	0.50	U	0.50	0.095	ug/L		05/05/11 12:02	05/11/11 12:42	1
Calcium	**24000**		250	130	ug/L		05/05/11 12:02	05/11/11 12:42	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 12:02	05/11/11 12:42	1
Cobalt	**0.73**		0.50	0.15	ug/L		05/05/11 12:02	05/11/11 12:42	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 12:02	05/11/11 12:42	1
Iron	**4200**		100	33	ug/L		05/05/11 12:02	05/11/11 12:42	1
Lead	**0.26**	**J**	1.5	0.20	ug/L		05/05/11 12:02	05/11/11 12:42	1
Magnesium	**8900**		250	43	ug/L		05/05/11 12:02	05/11/11 12:42	1
Manganese	**520**		5.0	1.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 12:02	05/11/11 12:42	1
Nickel	**5.2**		5.0	2.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Potassium	**1000**		500	170	ug/L		05/05/11 12:02	05/11/11 12:42	1
Selenium	2.5	U	2.5	1.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Silver	1.0	U	1.0	0.25	ug/L		05/05/11 12:02	05/11/11 12:42	1
Sodium	**140000**		500	250	ug/L		05/05/11 12:02	05/11/11 12:42	1
Thallium	1.0	U	1.0	0.50	ug/L		05/05/11 12:02	05/11/11 12:42	1
Vanadium	**5.0**	**J**	10	3.8	ug/L		05/05/11 12:02	05/11/11 12:42	1
Zinc	**14**	**J**	20	8.3	ug/L		05/05/11 12:02	05/11/11 12:42	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8700		2000	360	ug/L			05/21/11 13:04	2
Nitrogen, Kjeldahl	5500		400	300	ug/L		05/17/11 11:00	05/18/11 17:37	2
Nitrate as N	1100		50	10	ug/L			05/03/11 18:35	1
Nitrite as N	80		50	10	ug/L			05/03/11 18:35	1
Sulfate	51000		10000	5000	ug/L			05/23/11 12:40	2
Total Organic Carbon	9500		1000	500	ug/L			05/17/11 23:05	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: Trip Blank
Date Collected: 05/02/11 00:00
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/07/11 15:26	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 15:26	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 15:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 15:26	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 15:26	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 15:26	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 15:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 15:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 15:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 15:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 15:26	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Diethyl ether	10	U	10	1.0	ug/L			05/07/11 15:26	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 15:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 15:26	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 15:26	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 15:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 15:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 15:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 15:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 15:26	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 15:26	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 15:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 15:26	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 15:26	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 15:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 15:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 15:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:26	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: Trip Blank
Date Collected: 05/02/11 00:00
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 15:26	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 15:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 15:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 15:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 15:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 15:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/07/11 15:26*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/07/11 15:26*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/07/11 15:26*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/07/11 15:26*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-67898-1	VFSP-MW-1	95	104	102
680-67898-2	MW-4	94	101	102
680-67898-2 - DL	MW-4	99	100	105
680-67898-2 MS	MW-4	94	94	96
680-67898-2 MSD	MW-4	98	99	101
680-67898-3	EQUIPMENT BLANK	96	103	101
680-67898-4	MW-4U	93	102	102
680-67898-4 - DL	MW-4U	97	102	105
680-67898-5	MW-9	95	101	103
680-67898-5 - DL	MW-9	95	99	104
680-67898-6	MW-5	95	103	101
680-67898-6 - DL	MW-5	98	98	103
680-67898-7	MW-5U	94	99	102
680-67898-7 - DL	MW-5U	98	98	103
680-67898-8	FIELD BLANK	94	105	101
680-67898-9	FIELD DUPLICATE	96	102	103
680-67898-9 - DL	FIELD DUPLICATE	97	99	104
680-67898-10	MW-2	93	101	102
680-67898-10 - DL	MW-2	100	99	103
680-67898-11	TRIP BLANK 4	97	101	102
680-67948-1	MW-1	95	99	104
680-67948-1 - DL	MW-1	97	98	104
680-67948-2	NAT-4	94	101	103
680-67948-2 - DL	NAT-4	97	96	103
680-67948-3	Trip Blank	96	103	103
LCS 680-201948/10	Lab Control Sample	100	98	103
LCS 680-202151/6	Lab Control Sample	95	96	98
LCS 680-202173/12	Lab Control Sample	101	99	102
LCS 680-202245/15	Lab Control Sample	102	101	103
LCS 680-202323/5	Lab Control Sample	101	99	102
LCSD 680-201948/11	Lab Control Sample Dup	104	100	105
LCSD 680-202151/8	Lab Control Sample Dup	98	96	101
LCSD 680-202173/13	Lab Control Sample Dup	102	96	102
LCSD 680-202245/16	Lab Control Sample Dup	101	97	101
LCSD 680-202323/6	Lab Control Sample Dup	100	98	102
MB 680-201948/13	Method Blank	95	104	100
MB 680-202151/7	Method Blank	95	101	100
MB 680-202173/15	Method Blank	95	102	102
MB 680-202245/18	Method Blank	97	102	102
MB 680-202323/8	Method Blank	95	103	102

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-130)	(25-130)	(32-130)	(27-130)	(36-130)	(30-130)
680-67898-2	MW-4	60	53	55	29	67	75
680-67898-2 MS	MW-4	50	43	42	42	50	62
680-67898-2 MSD	MW-4	62	57	52	38	59	63
680-67898-3	EQUIPMENT BLANK	41	60	41	49	51	51
680-67898-4	MW-4U	52	51	47	33	60	61
680-67898-5	MW-9	59	48	45	40	61	66
680-67898-6	MW-5	60	52	50	45	61	62
680-67898-7	MW-5U	55	57	53	46	52	62
680-67898-8	FIELD BLANK	56	63	55	48	66	56
680-67898-9	FIELD DUPLICATE	62	43	47	42	68	65
680-67898-10	MW-2	67	61	57	41	71	73
680-67948-1	MW-1	66	58	58	49	73	74
LCS 680-202119/12-A	Lab Control Sample	67	60	60	58	73	71
LCS 680-202119/15-A	Lab Control Sample	65	56	57	51	66	72
LCSD 680-202119/16-A	Lab Control Sample Dup	68	67	60	59	72	73
MB 680-202119/11-A	Method Blank	58	62	58	49	74	42

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-201948/13
Matrix: Water
Analysis Batch: 201948

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 12:43	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 12:43	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 12:43	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 12:43	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 12:43	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 12:43	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 12:43	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 12:43	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 12:43	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 12:43	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 12:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 12:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 12:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 12:43	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 12:43	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 12:43	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 12:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 12:43	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 12:43	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 12:43	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 12:43	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 12:43	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 12:43	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 12:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 12:43	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 12:43	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 12:43	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 12:43	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 12:43	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 12:43	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 12:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 12:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-201948/13
Matrix: Water
Analysis Batch: 201948

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 12:43	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 12:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 12:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 12:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 12:43	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 12:43	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 12:43	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 12:43	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 12:43	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 12:43	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 12:43*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/04/11 12:43*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/04/11 12:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/04/11 12:43*	*1*

Lab Sample ID: LCS 680-201948/10
Matrix: Water
Analysis Batch: 201948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	92.9		ug/L		93	26 - 180
Benzene	50.0	52.4		ug/L		105	70 - 130
Bromodichloromethane	50.0	54.1		ug/L		108	70 - 130
Bromoform	50.0	43.5		ug/L		87	70 - 130
Bromomethane	50.0	45.2		ug/L		90	23 - 165
2-Butanone	100	96.1		ug/L		96	49 - 172
Carbon disulfide	50.0	43.7		ug/L		87	54 - 132
Carbon tetrachloride	50.0	55.0		ug/L		110	70 - 130
Chlorobenzene	50.0	49.9		ug/L		100	70 - 130
Chloroethane	50.0	36.5		ug/L		73	56 - 152
Chloroform	50.0	49.7		ug/L		99	70 - 130
Chloromethane	50.0	44.4		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	70 - 130
Dibromochloromethane	50.0	54.4		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	70 - 130
1,2-Dibromoethane	50.0	52.7		ug/L		105	70 - 130
Dibromomethane	50.0	50.4		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	46.7		ug/L		93	44 - 146
1,1-Dichloroethane	50.0	49.3		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	50.9		ug/L		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201948/10
Matrix: Water
Analysis Batch: 201948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1-Dichloroethene	50.0	46.5		ug/L		93	66 - 131
1,2-Dichloropropane	50.0	52.1		ug/L		104	70 - 130
Diethyl ether	50.0	44.8		ug/L		90	10 - 200
Ethylbenzene	50.0	52.0		ug/L		104	70 - 130
2-Hexanone	100	103		ug/L		103	42 - 185
Methylene Chloride	50.0	45.0		ug/L		90	67 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	70 - 130
Methyl tert-butyl ether	100	101		ug/L		101	64 - 131
Styrene	50.0	52.9		ug/L		106	70 - 130
t-Butanol	50.0	50.8		ug/L		102	20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	70 - 130
Tetrachloroethene	50.0	48.9		ug/L		98	70 - 130
Toluene	50.0	52.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	56.2		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	70 - 130
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	70 - 130
Trichloroethylene	50.0	51.6		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	40.5		ug/L		81	55 - 156
1,2,3-Trichloropropane	50.0	50.0		ug/L		100	70 - 130
Vinyl acetate	100	154		ug/L		154	60 - 176
Vinyl chloride	50.0	49.3		ug/L		99	67 - 134
Xylenes, Total	150	155		ug/L		103	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-201948/11
Matrix: Water
Analysis Batch: 201948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	100		ug/L		100	26 - 180	7	50
Benzene	50.0	53.1		ug/L		106	70 - 130	1	30
Bromodichloromethane	50.0	54.4		ug/L		109	70 - 130	0	30
Bromoform	50.0	45.4		ug/L		91	70 - 130	4	30
Bromomethane	50.0	55.2		ug/L		110	23 - 165	20	50
2-Butanone	100	96.9		ug/L		97	49 - 172	1	30
Carbon disulfide	50.0	45.4		ug/L		91	54 - 132	4	30
Carbon tetrachloride	50.0	55.1		ug/L		110	70 - 130	0	30
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130	2	30
Chloroethane	50.0	40.6		ug/L		81	56 - 152	11	40
Chloroform	50.0	50.5		ug/L		101	70 - 130	2	30
Chloromethane	50.0	44.9		ug/L		90	70 - 130	1	30
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201948/11
Matrix: Water
Analysis Batch: 201948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	56.0		ug/L		112	70 - 130	0	30
Dibromochloromethane			50.0	55.0		ug/L		110	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	55.7		ug/L		111	70 - 130	10	50
1,2-Dibromoethane			50.0	54.1		ug/L		108	70 - 130	3	30
Dibromomethane			50.0	51.7		ug/L		103	70 - 130	3	30
Dichlorodifluoromethane			50.0	48.0		ug/L		96	44 - 146	3	50
1,1-Dichloroethane			50.0	49.9		ug/L		100	70 - 130	1	30
1,2-Dichloroethane			50.0	51.4		ug/L		103	70 - 130	1	30
1,1-Dichloroethene			50.0	46.8		ug/L		94	66 - 131	0	30
1,2-Dichloropropane			50.0	52.6		ug/L		105	70 - 130	1	30
Diethyl ether			50.0	45.3		ug/L		91	10 - 200	1	50
Ethylbenzene			50.0	52.8		ug/L		106	70 - 130	1	30
2-Hexanone			100	109		ug/L		109	42 - 185	6	30
Methylene Chloride			50.0	46.7		ug/L		93	67 - 130	4	30
4-Methyl-2-pentanone (MIBK)			100	107		ug/L		107	70 - 130	5	30
Methyl tert-butyl ether			100	102		ug/L		102	64 - 131	1	30
Styrene			50.0	55.1		ug/L		110	70 - 130	4	30
t-Butanol			50.0	56.5		ug/L		113	20 - 195	11	50
1,1,1,2-Tetrachloroethane			50.0	54.5		ug/L		109	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	52.7		ug/L		105	70 - 130	5	30
Tetrachloroethene			50.0	49.9		ug/L		100	70 - 130	2	30
Toluene			50.0	52.8		ug/L		106	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	49.5		ug/L		99	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	56.9		ug/L		114	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	50.9		ug/L		102	70 - 130	5	30
1,1,1-Trichloroethane			50.0	53.8		ug/L		108	70 - 130	2	30
1,1,2-Trichloroethane			50.0	52.9		ug/L		106	70 - 130	3	30
Trichloroethylene			50.0	53.2		ug/L		106	70 - 130	3	30
Trichlorofluoromethane			50.0	42.3		ug/L		85	55 - 156	4	30
1,2,3-Trichloropropane			50.0	52.4		ug/L		105	70 - 130	5	30
Vinyl acetate			100	153		ug/L		153	60 - 176	1	30
Vinyl chloride			50.0	51.8		ug/L		104	67 - 134	5	30
Xylenes, Total			150	159		ug/L		106	70 - 130	2	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 680-202151/7
Matrix: Water
Analysis Batch: 202151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 22:03	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 22:03	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 22:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 22:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 22:03	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202151/7
Matrix: Water
Analysis Batch: 202151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 22:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 22:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 22:03	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 22:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 22:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 22:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 22:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 22:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 22:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 22:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 22:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 22:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 22:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 22:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 22:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 22:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 22:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 22:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 22:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/05/11 22:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 22:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 22:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 22:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 22:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 22:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 22:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:03	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 22:03	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 22:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 22:03	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/05/11 22:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 22:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 22:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 22:03	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 22:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 22:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 22:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 22:03	1
1,2,3-Trichlorobenzene	0.408	J	1.0	0.35	ug/L			05/05/11 22:03	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202151/7
Matrix: Water
Analysis Batch: 202151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 22:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 22:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 22:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 22:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 22:03	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1,2,4-Trichlorobenzene	*0.293*	*J T N*	*ug/L*		*10.00*	*120-82-1*		*05/05/11 22:03*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 22:03*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 22:03*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/05/11 22:03*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/05/11 22:03*	*1*

Lab Sample ID: LCS 680-202151/6
Matrix: Water
Analysis Batch: 202151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	98.1		ug/L		98	26 - 180
Benzene	50.0	50.3		ug/L		101	70 - 130
Bromodichloromethane	50.0	52.2		ug/L		104	70 - 130
Bromoform	50.0	42.9		ug/L		86	70 - 130
Bromomethane	50.0	43.2		ug/L		86	23 - 165
2-Butanone	100	88.3		ug/L		88	49 - 172
Carbon disulfide	50.0	43.6		ug/L		87	54 - 132
Carbon tetrachloride	50.0	51.8		ug/L		104	70 - 130
Chlorobenzene	50.0	46.9		ug/L		94	70 - 130
Chloroethane	50.0	38.7		ug/L		77	56 - 152
Chloroform	50.0	47.5		ug/L		95	70 - 130
Chloromethane	50.0	44.0		ug/L		88	70 - 130
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	70 - 130
Dibromochloromethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/L		101	70 - 130
1,2-Dibromoethane	50.0	49.8		ug/L		100	70 - 130
Dibromomethane	50.0	48.7		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	45.2		ug/L		90	44 - 146
1,1-Dichloroethane	50.0	48.6		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	45.4		ug/L		91	66 - 131
1,2-Dichloropropane	50.0	49.1		ug/L		98	70 - 130
Diethyl ether	50.0	42.8		ug/L		86	10 - 200
Ethylbenzene	50.0	49.0		ug/L		98	70 - 130
2-Hexanone	100	102		ug/L		102	42 - 185

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-202151/6
Matrix: Water
Analysis Batch: 202151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methylene Chloride	50.0	45.8		ug/L		92	67 - 130
4-Methyl-2-pentanone (MIBK)	100	97.2		ug/L		97	70 - 130
Methyl tert-butyl ether	100	97.7		ug/L		98	64 - 131
Styrene	50.0	49.9		ug/L		100	70 - 130
t-Butanol	50.0	54.5		ug/L		109	20 - 195
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	70 - 130
Tetrachloroethene	50.0	45.9		ug/L		92	70 - 130
Toluene	50.0	49.7		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	53.9		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	50.0	46.0		ug/L		92	70 - 130
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	70 - 130
Trichloroethylene	50.0	48.5		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	41.8		ug/L		84	55 - 156
1,2,3-Trichloropropane	50.0	47.7		ug/L		95	70 - 130
Vinyl acetate	100	151		ug/L		151	60 - 176
Vinyl chloride	50.0	48.8		ug/L		98	67 - 134
Xylenes, Total	150	145		ug/L		97	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*70 - 130*
Dibromofluoromethane	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-202151/8
Matrix: Water
Analysis Batch: 202151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	102		ug/L		102	26 - 180	4	50
Benzene	50.0	51.8		ug/L		104	70 - 130	3	30
Bromodichloromethane	50.0	51.7		ug/L		103	70 - 130	1	30
Bromoform	50.0	43.3		ug/L		87	70 - 130	1	30
Bromomethane	50.0	39.4		ug/L		79	23 - 165	9	50
2-Butanone	100	85.9		ug/L		86	49 - 172	3	30
Carbon disulfide	50.0	45.1		ug/L		90	54 - 132	3	30
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130	4	30
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130	3	30
Chloroethane	50.0	44.0		ug/L		88	56 - 152	13	40
Chloroform	50.0	48.9		ug/L		98	70 - 130	3	30
Chloromethane	50.0	44.1		ug/L		88	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	70 - 130	3	30
Dibromochloromethane	50.0	54.2		ug/L		108	70 - 130	3	50
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	70 - 130	2	50
1,2-Dibromoethane	50.0	49.8		ug/L		100	70 - 130	0	30
Dibromomethane	50.0	49.7		ug/L		99	70 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202151/8
Matrix: Water
Analysis Batch: 202151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			50.0	43.3		ug/L		87	44 - 146	4	50
1,1-Dichloroethane			50.0	49.2		ug/L		98	70 - 130	1	30
1,2-Dichloroethane			50.0	49.0		ug/L		98	70 - 130	2	30
1,1-Dichloroethene			50.0	47.5		ug/L		95	66 - 131	5	30
1,2-Dichloropropane			50.0	50.6		ug/L		101	70 - 130	3	30
Diethyl ether			50.0	49.3		ug/L		99	10 - 200	14	50
Ethylbenzene			50.0	50.8		ug/L		102	70 - 130	4	30
2-Hexanone			100	98.2		ug/L		98	42 - 185	3	30
Methylene Chloride			50.0	46.9		ug/L		94	67 - 130	2	30
4-Methyl-2-pentanone (MIBK)			100	93.4		ug/L		93	70 - 130	4	30
Methyl tert-butyl ether			100	93.4		ug/L		93	64 - 131	4	30
Styrene			50.0	51.7		ug/L		103	70 - 130	4	30
t-Butanol			50.0	46.0		ug/L		92	20 - 195	17	50
1,1,1,2-Tetrachloroethane			50.0	52.6		ug/L		105	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	48.6		ug/L		97	70 - 130	0	30
Tetrachloroethene			50.0	47.0		ug/L		94	70 - 130	2	30
Toluene			50.0	51.4		ug/L		103	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	49.2		ug/L		98	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	52.3		ug/L		105	70 - 130	3	50
1,2,3-Trichlorobenzene			50.0	44.7		ug/L		89	70 - 130	3	30
1,1,1-Trichloroethane			50.0	52.1		ug/L		104	70 - 130	3	30
1,1,2-Trichloroethane			50.0	50.0		ug/L		100	70 - 130	0	30
Trichloroethylene			50.0	49.8		ug/L		100	70 - 130	3	30
Trichlorofluoromethane			50.0	47.0		ug/L		94	55 - 156	12	30
1,2,3-Trichloropropane			50.0	47.5		ug/L		95	70 - 130	0	30
Vinyl acetate			100	135		ug/L		135	60 - 176	11	30
Vinyl chloride			50.0	51.1		ug/L		102	67 - 134	5	30
Xylenes, Total			150	151		ug/L		101	70 - 130	4	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*96*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-202173/15
Matrix: Water
Analysis Batch: 202173

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 12:21	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 12:21	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 12:21	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 12:21	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 12:21	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 12:21	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 12:21	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 12:21	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202173/15
Matrix: Water
Analysis Batch: 202173

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	10	U	10	1.0	ug/L			05/06/11 12:21	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 12:21	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 12:21	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 12:21	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 12:21	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 12:21	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 12:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 12:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 12:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 12:21	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 12:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 12:21	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 12:21	1
Diethyl ether	10	U	10	1.0	ug/L			05/06/11 12:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 12:21	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 12:21	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 12:21	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 12:21	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 12:21	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 12:21	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 12:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 12:21	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 12:21	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 12:21	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 12:21	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 12:21	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 12:21	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 12:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 12:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 12:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 12:21	1
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 12:21	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 12:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 12:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 12:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 12:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 12:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 12:21	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 12:21	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 12:21	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202173/15
Matrix: Water
Analysis Batch: 202173

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 12:21	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 12:21	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 12:21	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 12:21*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 12:21*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/06/11 12:21*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 12:21*	*1*

Lab Sample ID: LCS 680-202173/12
Matrix: Water
Analysis Batch: 202173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	106		ug/L		106	26 - 180
Benzene	50.0	51.9		ug/L		104	70 - 130
Bromodichloromethane	50.0	53.2		ug/L		106	70 - 130
Bromoform	50.0	44.3		ug/L		89	70 - 130
Bromomethane	50.0	49.9		ug/L		100	23 - 165
2-Butanone	100	97.0		ug/L		97	49 - 172
Carbon disulfide	50.0	44.4		ug/L		89	54 - 132
Carbon tetrachloride	50.0	53.5		ug/L		107	70 - 130
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130
Chloroethane	50.0	40.6		ug/L		81	56 - 152
Chloroform	50.0	49.9		ug/L		100	70 - 130
Chloromethane	50.0	44.8		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130
Dibromochloromethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.5		ug/L		105	70 - 130
1,2-Dibromoethane	50.0	52.4		ug/L		105	70 - 130
Dibromomethane	50.0	50.0		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	46.1		ug/L		92	44 - 146
1,1-Dichloroethane	50.0	50.3		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	50.0		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	46.5		ug/L		93	66 - 131
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130
Diethyl ether	50.0	45.4		ug/L		91	10 - 200
Ethylbenzene	50.0	50.6		ug/L		101	70 - 130
2-Hexanone	100	108		ug/L		108	42 - 185
Methylene Chloride	50.0	47.0		ug/L		94	67 - 130
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	70 - 130
Methyl tert-butyl ether	100	99.9		ug/L		100	64 - 131
Styrene	50.0	52.5		ug/L		105	70 - 130
t-Butanol	50.0	51.2		ug/L		102	20 - 195
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-202173/12
Matrix: Water
Analysis Batch: 202173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/L		100	70 - 130
Tetrachloroethene	50.0	46.7		ug/L		93	70 - 130
Toluene	50.0	51.3		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	48.2		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	55.5		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	50.0	49.3		ug/L		99	70 - 130
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	70 - 130
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	70 - 130
Trichloroethylene	50.0	50.4		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	41.7		ug/L		83	55 - 156
1,2,3-Trichloropropane	50.0	50.2		ug/L		100	70 - 130
Vinyl acetate	100	152		ug/L		152	60 - 176
Vinyl chloride	50.0	48.7		ug/L		97	67 - 134
Xylenes, Total	150	153		ug/L		102	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-202173/13
Matrix: Water
Analysis Batch: 202173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	98.0		ug/L		98	26 - 180	8	50
Benzene	50.0	51.8		ug/L		104	70 - 130	0	30
Bromodichloromethane	50.0	53.6		ug/L		107	70 - 130	1	30
Bromoform	50.0	44.9		ug/L		90	70 - 130	1	30
Bromomethane	50.0	53.3		ug/L		107	23 - 165	7	50
2-Butanone	100	92.3		ug/L		92	49 - 172	5	30
Carbon disulfide	50.0	44.3		ug/L		89	54 - 132	0	30
Carbon tetrachloride	50.0	54.2		ug/L		108	70 - 130	1	30
Chlorobenzene	50.0	49.4		ug/L		99	70 - 130	1	30
Chloroethane	50.0	39.2		ug/L		78	56 - 152	3	40
Chloroform	50.0	48.9		ug/L		98	70 - 130	2	30
Chloromethane	50.0	43.7		ug/L		87	70 - 130	3	30
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	55.3		ug/L		111	70 - 130	0	30
Dibromochloromethane	50.0	53.9		ug/L		108	70 - 130	0	50
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/L		106	70 - 130	1	50
1,2-Dibromoethane	50.0	51.5		ug/L		103	70 - 130	2	30
Dibromomethane	50.0	50.4		ug/L		101	70 - 130	1	30
Dichlorodifluoromethane	50.0	45.4		ug/L		91	44 - 146	1	50
1,1-Dichloroethane	50.0	48.6		ug/L		97	70 - 130	4	30
1,2-Dichloroethane	50.0	50.4		ug/L		101	70 - 130	1	30
1,1-Dichloroethene	50.0	45.5		ug/L		91	66 - 131	2	30
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130	0	30
Diethyl ether	50.0	44.8		ug/L		90	10 - 200	1	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202173/13
Matrix: Water
Analysis Batch: 202173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethylbenzene			50.0	51.4		ug/L		103	70 - 130	2	30
2-Hexanone			100	110		ug/L		110	42 - 185	2	30
Methylene Chloride			50.0	45.6		ug/L		91	67 - 130	3	30
4-Methyl-2-pentanone (MIBK)			100	101		ug/L		101	70 - 130	1	30
Methyl tert-butyl ether			100	97.2		ug/L		97	64 - 131	3	30
Styrene			50.0	53.4		ug/L		107	70 - 130	2	30
t-Butanol			50.0	50.1		ug/L		100	20 - 195	2	50
1,1,1,2-Tetrachloroethane			50.0	53.5		ug/L		107	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	51.2		ug/L		102	70 - 130	2	30
Tetrachloroethene			50.0	48.5		ug/L		97	70 - 130	4	30
Toluene			50.0	51.6		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	47.5		ug/L		95	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	54.9		ug/L		110	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	49.6		ug/L		99	70 - 130	1	30
1,1,1-Trichloroethane			50.0	52.5		ug/L		105	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.3		ug/L		103	70 - 130	1	30
Trichloroethylene			50.0	50.4		ug/L		101	70 - 130	0	30
Trichlorofluoromethane			50.0	40.6		ug/L		81	55 - 156	3	30
1,2,3-Trichloropropane			50.0	49.4		ug/L		99	70 - 130	2	30
Vinyl acetate			100	147		ug/L		147	60 - 176	3	30
Vinyl chloride			50.0	48.5		ug/L		97	67 - 134	0	30
Xylenes, Total			150	155		ug/L		103	70 - 130	2	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*96*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 202173

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Acetone	25	U	100	102		ug/L		102	26 - 180		
Benzene	1.0	U	50.0	48.7		ug/L		97	70 - 130		
Bromodichloromethane	1.0	U	50.0	49.3		ug/L		99	70 - 130		
Bromoform	1.0	U	50.0	40.9		ug/L		82	70 - 130		
Bromomethane	1.0	U	50.0	40.2		ug/L		80	23 - 165		
2-Butanone	10	U	100	98.4		ug/L		98	49 - 172		
Carbon disulfide	2.0	U	50.0	42.2		ug/L		84	54 - 132		
Carbon tetrachloride	1.0	U	50.0	51.8		ug/L		104	70 - 130		
Chlorobenzene	1.0	U	50.0	47.0		ug/L		94	70 - 130		
Chloroethane	1.0	U	50.0	40.7		ug/L		81	56 - 152		
Chloroform	1.0	U	50.0	47.3		ug/L		95	70 - 130		
Chloromethane	1.0	U	50.0	39.6		ug/L		79	70 - 130		
cis-1,2-Dichloroethene	1.0	U	50.0	48.8		ug/L		98	70 - 130		
cis-1,3-Dichloropropene	1.0	U	50.0	51.2		ug/L		102	70 - 130		
Dibromochloromethane	1.0	U	50.0	50.7		ug/L		101	70 - 130		
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	47.6		ug/L		95	70 - 130		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 202173

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2-Dibromoethane	1.0	U	50.0	47.8		ug/L		96	70 - 130
Dibromomethane	1.0	U	50.0	45.6		ug/L		91	70 - 130
Dichlorodifluoromethane	1.0	U	50.0	37.6		ug/L		75	44 - 146
1,1-Dichloroethane	1.0	U	50.0	47.8		ug/L		96	70 - 130
1,2-Dichloroethane	1.0	U	50.0	46.5		ug/L		93	70 - 130
1,1-Dichloroethene	1.0	U	50.0	44.4		ug/L		89	66 - 131
1,2-Dichloropropane	1.0	U	50.0	48.5		ug/L		97	70 - 130
Ethylbenzene	1.0	U	50.0	49.4		ug/L		99	70 - 130
2-Hexanone	10	U	100	103		ug/L		103	42 - 185
Methylene Chloride	5.0	U	50.0	43.2		ug/L		86	67 - 130
4-Methyl-2-pentanone (MIBK)	10	U	100	94.8		ug/L		95	70 - 130
Methyl tert-butyl ether	10	U	100	92.8		ug/L		93	64 - 131
Styrene	1.0	U	50.0	50.0		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	1.0	U	50.0	50.8		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	1.0	U	50.0	48.0		ug/L		96	70 - 130
Tetrachloroethene	1.0	U	50.0	46.6		ug/L		93	70 - 130
Toluene	1.0	U	50.0	48.7		ug/L		97	70 - 130
trans-1,2-Dichloroethene	1.0	U	50.0	47.9		ug/L		96	70 - 130
trans-1,3-Dichloropropene	1.0	U	50.0	51.1		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	1.0	U	50.0	44.4		ug/L		89	70 - 130
1,1,1-Trichloroethane	1.0	U	50.0	50.4		ug/L		101	70 - 130
1,1,2-Trichloroethane	1.0	U	50.0	46.9		ug/L		94	70 - 130
Trichloroethylene	1.0	U	50.0	48.6		ug/L		97	70 - 130
Trichlorofluoromethane	1.0	U	50.0	44.1		ug/L		88	55 - 156
1,2,3-Trichloropropane	1.0	U	50.0	46.1		ug/L		92	70 - 130
Vinyl acetate	2.0	U	100	149		ug/L		149	60 - 176
Vinyl chloride	1.0	U	50.0	46.1		ug/L		92	67 - 134
Xylenes, Total	2.0	U	150	147		ug/L		98	70 - 130

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*70 - 130*
Dibromofluoromethane	*94*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 202173

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	25	U	100	102		ug/L		102	26 - 180	0	50
Benzene	1.0	U	50.0	51.4		ug/L		103	70 - 130	6	30
Bromodichloromethane	1.0	U	50.0	51.5		ug/L		103	70 - 130	4	30
Bromoform	1.0	U	50.0	43.4		ug/L		87	70 - 130	6	30
Bromomethane	1.0	U	50.0	58.6		ug/L		117	23 - 165	37	50
2-Butanone	10	U	100	78.0		ug/L		78	49 - 172	23	30
Carbon disulfide	2.0	U	50.0	44.0		ug/L		88	54 - 132	4	30
Carbon tetrachloride	1.0	U	50.0	55.3		ug/L		111	70 - 130	7	30
Chlorobenzene	1.0	U	50.0	49.4		ug/L		99	70 - 130	5	30
Chloroethane	1.0	U	50.0	42.8		ug/L		86	56 - 152	5	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 202173

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloroform	1.0	U	50.0	50.4		ug/L		101	70 - 130	6	30
Chloromethane	1.0	U	50.0	41.5		ug/L		83	70 - 130	4	30
cis-1,2-Dichloroethene	1.0	U	50.0	50.0		ug/L		100	70 - 130	2	30
cis-1,3-Dichloropropene	1.0	U	50.0	52.7		ug/L		105	70 - 130	3	30
Dibromochloromethane	1.0	U	50.0	52.0		ug/L		104	70 - 130	3	50
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	50.7		ug/L		101	70 - 130	6	50
1,2-Dibromoethane	1.0	U	50.0	50.0		ug/L		100	70 - 130	4	30
Dibromomethane	1.0	U	50.0	49.6		ug/L		99	70 - 130	8	30
Dichlorodifluoromethane	1.0	U	50.0	41.4		ug/L		83	44 - 146	10	50
1,1-Dichloroethane	1.0	U	50.0	50.2		ug/L		100	70 - 130	5	30
1,2-Dichloroethane	1.0	U	50.0	48.3		ug/L		97	70 - 130	4	30
1,1-Dichloroethene	1.0	U	50.0	46.4		ug/L		93	66 - 131	4	30
1,2-Dichloropropane	1.0	U	50.0	50.4		ug/L		101	70 - 130	4	30
Ethylbenzene	1.0	U	50.0	51.2		ug/L		102	70 - 130	4	30
2-Hexanone	10	U	100	102		ug/L		102	42 - 185	1	30
Methylene Chloride	5.0	U	50.0	45.1		ug/L		90	67 - 130	4	30
4-Methyl-2-pentanone (MIBK)	10	U	100	98.6		ug/L		99	70 - 130	4	30
Methyl tert-butyl ether	10	U	100	96.5		ug/L		97	64 - 131	4	30
Styrene	1.0	U	50.0	51.8		ug/L		104	70 - 130	4	30
1,1,1,2-Tetrachloroethane	1.0	U	50.0	52.9		ug/L		106	70 - 130	4	30
1,1,2,2-Tetrachloroethane	1.0	U	50.0	50.6		ug/L		101	70 - 130	5	30
Tetrachloroethene	1.0	U	50.0	48.8		ug/L		98	70 - 130	5	30
Toluene	1.0	U	50.0	50.2		ug/L		100	70 - 130	3	30
trans-1,2-Dichloroethene	1.0	U	50.0	50.5		ug/L		101	70 - 130	5	30
trans-1,3-Dichloropropene	1.0	U	50.0	53.6		ug/L		107	70 - 130	5	50
1,2,3-Trichlorobenzene	1.0	U	50.0	47.4		ug/L		95	70 - 130	7	30
1,1,1-Trichloroethane	1.0	U	50.0	53.2		ug/L		106	70 - 130	5	30
1,1,2-Trichloroethane	1.0	U	50.0	50.0		ug/L		100	70 - 130	6	30
Trichloroethylene	1.0	U	50.0	50.8		ug/L		102	70 - 130	4	30
Trichlorofluoromethane	1.0	U	50.0	45.9		ug/L		92	55 - 156	4	30
1,2,3-Trichloropropane	1.0	U	50.0	48.1		ug/L		96	70 - 130	4	30
Vinyl acetate	2.0	U	100	152		ug/L		152	60 - 176	2	30
Vinyl chloride	1.0	U	50.0	47.6		ug/L		95	67 - 134	3	30
Xylenes, Total	2.0	U	150	152		ug/L		101	70 - 130	3	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-202245/18
Matrix: Water
Analysis Batch: 202245

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/07/11 14:00	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 14:00	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 14:00	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 14:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202245/18
Matrix: Water
Analysis Batch: 202245

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 14:00	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 14:00	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 14:00	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 14:00	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 14:00	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 14:00	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 14:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 14:00	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 14:00	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 14:00	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 14:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 14:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 14:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 14:00	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 14:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 14:00	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 14:00	1
Diethyl ether	10	U	10	1.0	ug/L			05/07/11 14:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 14:00	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 14:00	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 14:00	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 14:00	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 14:00	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 14:00	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 14:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 14:00	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 14:00	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 14:00	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 14:00	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 14:00	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 14:00	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 14:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 14:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 14:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 14:00	1
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 14:00	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 14:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 14:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 14:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202245/18
Matrix: Water
Analysis Batch: 202245

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 14:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 14:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 14:00	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/07/11 14:00	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 14:00	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 14:00	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 14:00	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 14:00	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/07/11 14:00*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/07/11 14:00*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/07/11 14:00*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/07/11 14:00*	*1*

Lab Sample ID: LCS 680-202245/15
Matrix: Water
Analysis Batch: 202245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	107		ug/L		107	26 - 180
Benzene	50.0	51.5		ug/L		103	70 - 130
Bromodichloromethane	50.0	54.1		ug/L		108	70 - 130
Bromoform	50.0	45.8		ug/L		92	70 - 130
Bromomethane	50.0	38.6		ug/L		77	23 - 165
2-Butanone	100	95.4		ug/L		95	49 - 172
Carbon disulfide	50.0	46.4		ug/L		93	54 - 132
Carbon tetrachloride	50.0	55.4		ug/L		111	70 - 130
Chlorobenzene	50.0	49.3		ug/L		99	70 - 130
Chloroethane	50.0	42.0		ug/L		84	56 - 152
Chloroform	50.0	51.0		ug/L		102	70 - 130
Chloromethane	50.0	45.2		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	55.8		ug/L		112	70 - 130
Dibromochloromethane	50.0	55.1		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130
1,2-Dibromoethane	50.0	51.7		ug/L		103	70 - 130
Dibromomethane	50.0	50.2		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	48.2		ug/L		96	44 - 146
1,1-Dichloroethane	50.0	51.0		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	50.2		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	47.6		ug/L		95	66 - 131
1,2-Dichloropropane	50.0	51.8		ug/L		104	70 - 130
Diethyl ether	50.0	44.9		ug/L		90	10 - 200
Ethylbenzene	50.0	51.9		ug/L		104	70 - 130
2-Hexanone	100	112		ug/L		112	42 - 185

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-202245/15
Matrix: Water
Analysis Batch: 202245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methylene Chloride	50.0	46.8		ug/L		94	67 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	70 - 130
Methyl tert-butyl ether	100	100		ug/L		100	64 - 131
Styrene	50.0	53.6		ug/L		107	70 - 130
t-Butanol	50.0	53.1		ug/L		106	20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 130
Tetrachloroethene	50.0	48.1		ug/L		96	70 - 130
Toluene	50.0	51.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	57.1		ug/L		114	70 - 130
1,2,3-Trichlorobenzene	50.0	49.2		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	70 - 130
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	70 - 130
Trichloroethylene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	43.3		ug/L		87	55 - 156
1,2,3-Trichloropropane	50.0	48.7		ug/L		97	70 - 130
Vinyl acetate	100	154		ug/L		154	60 - 176
Vinyl chloride	50.0	49.3		ug/L		99	67 - 134
Xylenes, Total	150	156		ug/L		104	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-202245/16
Matrix: Water
Analysis Batch: 202245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	100		ug/L		100	26 - 180	6	50
Benzene	50.0	50.4		ug/L		101	70 - 130	2	30
Bromodichloromethane	50.0	53.4		ug/L		107	70 - 130	1	30
Bromoform	50.0	45.0		ug/L		90	70 - 130	2	30
Bromomethane	50.0	42.8		ug/L		86	23 - 165	10	50
2-Butanone	100	90.5		ug/L		90	49 - 172	5	30
Carbon disulfide	50.0	43.8		ug/L		88	54 - 132	6	30
Carbon tetrachloride	50.0	53.0		ug/L		106	70 - 130	4	30
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130	1	30
Chloroethane	50.0	40.3		ug/L		81	56 - 152	4	40
Chloroform	50.0	49.5		ug/L		99	70 - 130	3	30
Chloromethane	50.0	43.3		ug/L		87	70 - 130	4	30
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	70 - 130	2	30
Dibromochloromethane	50.0	54.0		ug/L		108	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/L		103	70 - 130	1	50
1,2-Dibromoethane	50.0	51.2		ug/L		102	70 - 130	1	30
Dibromomethane	50.0	49.8		ug/L		100	70 - 130	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202245/16
Matrix: Water
Analysis Batch: 202245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			50.0	45.0		ug/L		90	44 - 146	7	50
1,1-Dichloroethane			50.0	49.0		ug/L		98	70 - 130	4	30
1,2-Dichloroethane			50.0	49.9		ug/L		100	70 - 130	1	30
1,1-Dichloroethene			50.0	45.3		ug/L		91	66 - 131	5	30
1,2-Dichloropropane			50.0	51.5		ug/L		103	70 - 130	1	30
Diethyl ether			50.0	42.9		ug/L		86	10 - 200	4	50
Ethylbenzene			50.0	50.8		ug/L		102	70 - 130	2	30
2-Hexanone			100	110		ug/L		110	42 - 185	2	30
Methylene Chloride			50.0	46.0		ug/L		92	67 - 130	2	30
4-Methyl-2-pentanone (MIBK)			100	98.3		ug/L		98	70 - 130	3	30
Methyl tert-butyl ether			100	97.8		ug/L		98	64 - 131	2	30
Styrene			50.0	52.8		ug/L		106	70 - 130	1	30
t-Butanol			50.0	50.1		ug/L		100	20 - 195	6	50
1,1,1,2-Tetrachloroethane			50.0	52.9		ug/L		106	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	50.3		ug/L		101	70 - 130	2	30
Tetrachloroethene			50.0	46.5		ug/L		93	70 - 130	3	30
Toluene			50.0	50.8		ug/L		102	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	47.7		ug/L		95	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	56.1		ug/L		112	70 - 130	2	50
1,2,3-Trichlorobenzene			50.0	49.4		ug/L		99	70 - 130	0	30
1,1,1-Trichloroethane			50.0	51.6		ug/L		103	70 - 130	3	30
1,1,2-Trichloroethane			50.0	50.6		ug/L		101	70 - 130	2	30
Trichloroethylene			50.0	49.4		ug/L		99	70 - 130	2	30
Trichlorofluoromethane			50.0	40.1		ug/L		80	55 - 156	8	30
1,2,3-Trichloropropane			50.0	49.0		ug/L		98	70 - 130	1	30
Vinyl acetate			100	148		ug/L		148	60 - 176	4	30
Vinyl chloride			50.0	46.7		ug/L		93	67 - 134	5	30
Xylenes, Total			150	152		ug/L		101	70 - 130	2	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-202323/8
Matrix: Water
Analysis Batch: 202323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/08/11 14:11	1
Acetonitrile	40	U	40	10	ug/L			05/08/11 14:11	1
Acrolein	20	U	20	7.4	ug/L			05/08/11 14:11	1
Acrylonitrile	20	U	20	7.2	ug/L			05/08/11 14:11	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/08/11 14:11	1
Benzene	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/08/11 14:11	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/08/11 14:11	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/08/11 14:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202323/8
Matrix: Water
Analysis Batch: 202323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	10	U	10	1.0	ug/L			05/08/11 14:11	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/08/11 14:11	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/08/11 14:11	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/08/11 14:11	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/08/11 14:11	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/08/11 14:11	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/08/11 14:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/08/11 14:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/08/11 14:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/08/11 14:11	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/08/11 14:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/08/11 14:11	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/08/11 14:11	1
Diethyl ether	10	U	10	1.0	ug/L			05/08/11 14:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
Ethylene oxide	200	U	200	200	ug/L			05/08/11 14:11	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
2-Hexanone	10	U	10	1.0	ug/L			05/08/11 14:11	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/08/11 14:11	1
Isobutyl alcohol	40	U	40	11	ug/L			05/08/11 14:11	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/08/11 14:11	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/08/11 14:11	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/08/11 14:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/08/11 14:11	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/08/11 14:11	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/08/11 14:11	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/08/11 14:11	1
Propionitrile	20	U	20	4.6	ug/L			05/08/11 14:11	1
Propylene oxide	200	U	200	200	ug/L			05/08/11 14:11	1
Styrene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/08/11 14:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/08/11 14:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/08/11 14:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/08/11 14:11	1
Toluene	1.0	U	1.0	0.33	ug/L			05/08/11 14:11	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/08/11 14:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/08/11 14:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/08/11 14:11	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/08/11 14:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/08/11 14:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/08/11 14:11	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/08/11 14:11	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/08/11 14:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202323/8
Matrix: Water
Analysis Batch: 202323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/08/11 14:11	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/08/11 14:11	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/08/11 14:11	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/08/11 14:11*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/08/11 14:11*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/08/11 14:11*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/08/11 14:11*	*1*

Lab Sample ID: LCS 680-202323/5
Matrix: Water
Analysis Batch: 202323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	98.1		ug/L		98	26 - 180
Benzene	50.0	51.3		ug/L		103	70 - 130
Bromodichloromethane	50.0	53.3		ug/L		107	70 - 130
Bromoform	50.0	44.8		ug/L		90	70 - 130
Bromomethane	50.0	37.5		ug/L		75	23 - 165
2-Butanone	100	91.3		ug/L		91	49 - 172
Carbon disulfide	50.0	45.7		ug/L		91	54 - 132
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130
Chlorobenzene	50.0	48.7		ug/L		97	70 - 130
Chloroethane	50.0	42.4		ug/L		85	56 - 152
Chloroform	50.0	49.4		ug/L		99	70 - 130
Chloromethane	50.0	44.1		ug/L		88	70 - 130
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	70 - 130
Dibromochloromethane	50.0	55.0		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/L		102	70 - 130
1,2-Dibromoethane	50.0	51.6		ug/L		103	70 - 130
Dibromomethane	50.0	49.5		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	46.4		ug/L		93	44 - 146
1,1-Dichloroethane	50.0	50.2		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	48.9		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	46.7		ug/L		93	66 - 131
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
Diethyl ether	50.0	47.2		ug/L		94	10 - 200
Ethylbenzene	50.0	51.0		ug/L		102	70 - 130
2-Hexanone	100	107		ug/L		107	42 - 185
Methylene Chloride	50.0	47.5		ug/L		95	67 - 130
4-Methyl-2-pentanone (MIBK)	100	99.6		ug/L		100	70 - 130
Methyl tert-butyl ether	100	98.7		ug/L		99	64 - 131
Styrene	50.0	52.2		ug/L		104	70 - 130
t-Butanol	50.0	52.0		ug/L		104	20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/L		107	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-202323/5
Matrix: Water
Analysis Batch: 202323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/L		99	70 - 130
Tetrachloroethene	50.0	47.3		ug/L		95	70 - 130
Toluene	50.0	50.8		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	56.0		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	50.0	49.3		ug/L		99	70 - 130
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	70 - 130
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	70 - 130
Trichloroethylene	50.0	50.7		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	42.9		ug/L		86	55 - 156
1,2,3-Trichloropropane	50.0	48.6		ug/L		97	70 - 130
Vinyl acetate	100	147		ug/L		147	60 - 176
Vinyl chloride	50.0	49.0		ug/L		98	67 - 134
Xylenes, Total	150	152		ug/L		101	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-202323/6
Matrix: Water
Analysis Batch: 202323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	100		ug/L		100	26 - 180	2	50
Benzene	50.0	51.6		ug/L		103	70 - 130	1	30
Bromodichloromethane	50.0	53.9		ug/L		108	70 - 130	1	30
Bromoform	50.0	43.9		ug/L		88	70 - 130	2	30
Bromomethane	50.0	41.4		ug/L		83	23 - 165	10	50
2-Butanone	100	92.0		ug/L		92	49 - 172	1	30
Carbon disulfide	50.0	44.4		ug/L		89	54 - 132	3	30
Carbon tetrachloride	50.0	54.7		ug/L		109	70 - 130	2	30
Chlorobenzene	50.0	48.1		ug/L		96	70 - 130	1	30
Chloroethane	50.0	40.2		ug/L		80	56 - 152	5	40
Chloroform	50.0	49.8		ug/L		100	70 - 130	1	30
Chloromethane	50.0	43.3		ug/L		87	70 - 130	2	30
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130	0	30
Dibromochloromethane	50.0	53.7		ug/L		107	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/L		101	70 - 130	2	50
1,2-Dibromoethane	50.0	52.8		ug/L		106	70 - 130	2	30
Dibromomethane	50.0	50.9		ug/L		102	70 - 130	3	30
Dichlorodifluoromethane	50.0	46.0		ug/L		92	44 - 146	1	50
1,1-Dichloroethane	50.0	49.5		ug/L		99	70 - 130	1	30
1,2-Dichloroethane	50.0	50.4		ug/L		101	70 - 130	3	30
1,1-Dichloroethene	50.0	46.4		ug/L		93	66 - 131	1	30
1,2-Dichloropropane	50.0	52.0		ug/L		104	70 - 130	3	30
Diethyl ether	50.0	47.7		ug/L		95	10 - 200	1	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202323/6
Matrix: Water
Analysis Batch: 202323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethylbenzene			50.0	50.1		ug/L		100	70 - 130	2	30
2-Hexanone			100	109		ug/L		109	42 - 185	2	30
Methylene Chloride			50.0	46.6		ug/L		93	67 - 130	2	30
4-Methyl-2-pentanone (MIBK)			100	100		ug/L		100	70 - 130	1	30
Methyl tert-butyl ether			100	99.3		ug/L		99	64 - 131	1	30
Styrene			50.0	51.3		ug/L		103	70 - 130	2	30
t-Butanol			50.0	51.7		ug/L		103	20 - 195	1	50
1,1,1,2-Tetrachloroethane			50.0	53.2		ug/L		106	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	49.1		ug/L		98	70 - 130	1	30
Tetrachloroethene			50.0	46.7		ug/L		93	70 - 130	1	30
Toluene			50.0	51.4		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	48.1		ug/L		96	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	56.4		ug/L		113	70 - 130	1	50
1,2,3-Trichlorobenzene			50.0	49.4		ug/L		99	70 - 130	0	30
1,1,1-Trichloroethane			50.0	52.5		ug/L		105	70 - 130	1	30
1,1,2-Trichloroethane			50.0	51.8		ug/L		104	70 - 130	2	30
Trichloroethylene			50.0	51.1		ug/L		102	70 - 130	1	30
Trichlorofluoromethane			50.0	41.5		ug/L		83	55 - 156	3	30
1,2,3-Trichloropropane			50.0	47.7		ug/L		95	70 - 130	2	30
Vinyl acetate			100	147		ug/L		147	60 - 176	0	30
Vinyl chloride			50.0	47.9		ug/L		96	67 - 134	2	30
Xylenes, Total			150	150		ug/L		100	70 - 130	2	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 680-202119/11-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Acetophenone	0.215	J	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/06/11 14:51	06/02/11 19:05	1
Aniline	2.0	U	2.0	0.97	ug/L		05/06/11 14:51	06/02/11 19:05	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-202119/11-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/06/11 14:51	06/02/11 19:05	1
Diallate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,4-Dichlorobenzene	0.444	J	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 19:05	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/06/11 14:51	06/02/11 19:05	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/06/11 14:51	06/02/11 19:05	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Famphur	1.0	U	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 19:05	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorophene	500	U	500	25	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-202119/11-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Methapyrilene	200	U	200	1.3	ug/L		05/06/11 14:51	06/02/11 19:05	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/06/11 14:51	06/02/11 19:05	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/06/11 14:51	06/02/11 19:05	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 19:05	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 19:05	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
o,o',o''-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenol	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phorate	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 19:05	1
p-Phenylene diamine	200	U	200	16	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/06/11 14:51	06/02/11 19:05	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 19:05	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 680-202119/11-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*9.91*	*T A J*	*ug/L*		*2.90*		*05/06/11 14:51*	*06/02/11 19:05*	*1*
Unknown	*2.33*	*T J*	*ug/L*		*2.94*		*05/06/11 14:51*	*06/02/11 19:05*	*1*
Unknown	*3.19*	*T J*	*ug/L*		*4.09*		*05/06/11 14:51*	*06/02/11 19:05*	*1*
2-Undecanone	*0.926*	*T J N*	*ug/L*		*6.70*	*112-12-9*	*05/06/11 14:51*	*06/02/11 19:05*	*1*
Unknown	*0.805*	*T J*	*ug/L*		*7.73*		*05/06/11 14:51*	*06/02/11 19:05*	*1*
Unknown	*1.08*	*T J*	*ug/L*		*11.24*		*05/06/11 14:51*	*06/02/11 19:05*	*1*
Unknown	*3.63*	*T J*	*ug/L*		*11.43*		*05/06/11 14:51*	*06/02/11 19:05*	*1*
Unknown Organic Acid	*2.76*	*T J*	*ug/L*		*12.28*		*05/06/11 14:51*	*06/02/11 19:05*	*1*
Triacontane	*0.834*	*T J N*	*ug/L*		*13.84*	*638-68-6*	*05/06/11 14:51*	*06/02/11 19:05*	*1*
Unknown	*0.986*	*T J*	*ug/L*		*15.88*		*05/06/11 14:51*	*06/02/11 19:05*	*1*

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*34 - 130*	*05/06/11 14:51*	*06/02/11 19:05*	*1*
2-Fluorophenol	*62*		*25 - 130*	*05/06/11 14:51*	*06/02/11 19:05*	*1*
Nitrobenzene-d5	*58*		*32 - 130*	*05/06/11 14:51*	*06/02/11 19:05*	*1*
Phenol-d5	*49*		*27 - 130*	*05/06/11 14:51*	*06/02/11 19:05*	*1*
Terphenyl-d14	*74*		*36 - 130*	*05/06/11 14:51*	*06/02/11 19:05*	*1*
2,4,6-Tribromophenol	*42*		*30 - 130*	*05/06/11 14:51*	*06/02/11 19:05*	*1*

Lab Sample ID: LCS 680-202119/12-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	2.00	1.27		ug/L		64	42 - 130
Acenaphthylene	2.00	1.30		ug/L		65	45 - 130
Acetophenone	10.0	6.12		ug/L		61	45 - 130
Aniline	10.0	4.16		ug/L		42	10 - 130
Anthracene	2.00	1.72		ug/L		86	58 - 130
Benzo[a]anthracene	2.00	1.53		ug/L		76	42 - 143
Benzo[a]pyrene	2.00	1.72		ug/L		86	45 - 151
Benzo[b]fluoranthene	2.00	1.45		ug/L		73	41 - 140
Benzo[g,h,i]perylene	2.00	1.75		ug/L		88	27 - 134
Benzo[k]fluoranthene	2.00	1.91		ug/L		95	45 - 140
Benzyl alcohol	10.0	5.73		ug/L		57	34 - 130
1,1'-Biphenyl	10.0	6.49		ug/L		65	50 - 130
Bis(2-chloroethoxy)methane	10.0	6.22		ug/L		62	47 - 130
Bis(2-chloroethyl)ether	10.0	9.21		ug/L		92	36 - 130
Bis(2-ethylhexyl) phthalate	10.0	8.54		ug/L		85	10 - 158
4-Bromophenyl phenyl ether	10.0	7.43		ug/L		74	44 - 130
Butyl benzyl phthalate	10.0	8.24		ug/L		82	60 - 130

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-202119/12-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chloroaniline	10.0	5.61		ug/L		56	17 - 130
4-Chloro-3-methylphenol	10.0	7.07		ug/L		71	54 - 130
2-Chloronaphthalene	10.0	5.84		ug/L		58	48 - 130
2-Chlorophenol	10.0	6.82		ug/L		68	45 - 130
4-Chlorophenyl phenyl ether	10.0	6.99		ug/L		70	52 - 130
Chrysene	2.00	1.58		ug/L		79	40 - 142
Dibenz(a,h)anthracene	2.00	1.82		ug/L		91	38 - 130
Dibenzofuran	10.0	6.52		ug/L		65	56 - 130
1,2-Dichlorobenzene	10.0	5.41		ug/L		54	36 - 130
1,3-Dichlorobenzene	10.0	5.23		ug/L		52	31 - 130
1,4-Dichlorobenzene	10.0	5.06		ug/L		51	34 - 130
3,3'-Dichlorobenzidine	10.0	8.00	J	ug/L		80	10 - 158
2,4-Dichlorophenol	10.0	6.71		ug/L		67	58 - 130
Diethyl phthalate	10.0	7.09		ug/L		71	60 - 130
2,4-Dimethylphenol	10.0	4.93		ug/L		49	41 - 130
Dimethyl phthalate	10.0	7.16		ug/L		72	58 - 130
Di-n-butyl phthalate	10.0	8.17		ug/L		82	59 - 130
4,6-Dinitro-2-methylphenol	10.0	5.33		ug/L		53	10 - 182
2,4-Dinitrophenol	10.0	4.78	J	ug/L		48	10 - 200
2,4-Dinitrotoluene	10.0	6.31		ug/L		63	57 - 130
2,6-Dinitrotoluene	10.0	6.60		ug/L		66	53 - 130
Di-n-octyl phthalate	10.0	9.13		ug/L		91	19 - 130
1,4-Dioxane	10.0	4.36		ug/L		44	10 - 130
Fluoranthene	2.00	1.49		ug/L		74	46 - 136
Fluorene	2.00	1.34		ug/L		67	48 - 130
Hexachlorobenzene	10.0	6.69		ug/L		67	49 - 130
Hexachlorobutadiene	10.0	5.92		ug/L		59	36 - 130
Hexachlorocyclopentadiene	10.0	3.35		ug/L		34	16 - 130
Hexachloroethane	10.0	4.92		ug/L		49	32 - 130
Indeno[1,2,3-cd]pyrene	2.00	1.64		ug/L		82	12 - 130
Isophorone	10.0	5.37		ug/L		54	45 - 130
2-Methylnaphthalene	2.00	1.44		ug/L		72	51 - 130
2-Methylphenol	10.0	6.46		ug/L		65	49 - 130
3 & 4 Methylphenol	10.0	6.18		ug/L		62	55 - 130
Naphthalene	2.00	1.40		ug/L		70	35 - 130
2-Nitroaniline	10.0	5.77		ug/L		58	48 - 130
3-Nitroaniline	10.0	6.03		ug/L		60	18 - 147
4-Nitroaniline	10.0	6.59		ug/L		66	31 - 147
Nitrobenzene	10.0	5.10		ug/L		51	45 - 130
2-Nitrophenol	10.0	6.83		ug/L		68	49 - 130
4-Nitrophenol	10.0	4.22	J	ug/L		42	36 - 132
N-Nitrosodimethylamine	10.0	5.33		ug/L		53	29 - 130
N-Nitrosodi-n-propylamine	10.0	6.15		ug/L		62	42 - 130
N-Nitrosodiphenylamine	10.0	7.46		ug/L		75	38 - 130
2,2'-oxybis[1-chloropropane]	10.0	4.77		ug/L		48	39 - 130
Pentachlorophenol	10.0	3.50	J	ug/L		35	12 - 156
Phenanthrene	2.00	1.46		ug/L		73	45 - 134
Phenol	10.0	4.53		ug/L		45	44 - 130
Pyrene	2.00	1.51		ug/L		76	47 - 143
Pyridine	10.0	4.49	J	ug/L		45	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-202119/12-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2,4-Trichlorobenzene	10.0	5.60		ug/L		56	39 - 130
2,4,5-Trichlorophenol	10.0	7.52		ug/L		75	61 - 130
2,4,6-Trichlorophenol	10.0	7.00		ug/L		70	61 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*34 - 130*
2-Fluorophenol	*60*		*25 - 130*
Nitrobenzene-d5	*60*		*32 - 130*
Phenol-d5	*58*		*27 - 130*
Terphenyl-d14	*73*		*36 - 130*
2,4,6-Tribromophenol	*71*		*30 - 130*

Lab Sample ID: LCS 680-202119/15-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2-Acetylaminofluorene	10.0	8.40		ug/L		84	10 - 130
alpha,alpha-Dimethyl phenethylamine	10.0	6.73	J	ug/L		67	10 - 130
4-Aminobiphenyl	10.0	5.69		ug/L		57	10 - 130
Aramite, Total	10.0	9.20		ug/L		92	10 - 130
Diallate	10.0	7.67		ug/L		77	10 - 130
2,6-Dichlorophenol	10.0	9.07		ug/L		91	10 - 130
Dimethoate	10.0	8.51		ug/L		85	10 - 130
7,12-Dimethylbenz(a)anthracene	10.0	7.85		ug/L		78	10 - 130
3,3'-Dimethylbenzidine	25.0	30.0		ug/L		120	10 - 130
Disulfoton	10.0	8.12		ug/L		81	10 - 130
Ethyl methanesulfonate	10.0	5.08		ug/L		51	10 - 130
Ethyl Parathion	10.0	10.1		ug/L		101	10 - 130
Famphur	10.0	0.995	J	ug/L		10	10 - 130
Hexachlorophene	50.0	500	U *	ug/L		8	10 - 130
Hexachloropropene	10.0	3.68		ug/L		37	10 - 130
Isosafrole	10.0	8.72		ug/L		87	10 - 130
m-Dinitrobenzene	10.0	9.14		ug/L		91	10 - 130
Methapyrilene	50.0	36.3	J	ug/L		73	10 - 130
3-Methylcholanthrene	10.0	9.36		ug/L		94	10 - 130
Methyl methanesulfonate	10.0	10.1		ug/L		101	10 - 130
Methyl parathion	10.0	9.07		ug/L		91	10 - 130
1-Naphthalenamine	10.0	6.19		ug/L		62	10 - 130
2-Naphthalenamine	10.0	5.51		ug/L		55	10 - 130
1,4-Naphthoquinone	10.0	3.93		ug/L		39	10 - 130
5-Nitro-o-toluidine	10.0	9.20		ug/L		92	10 - 130
4-Nitroquinoline-1-oxide	10.0	5.94		ug/L		59	10 - 130
N-Nitrosodiethylamine	10.0	8.56		ug/L		86	10 - 130
N-Nitrosodi-n-butylamine	10.0	7.72		ug/L		77	10 - 130
N-Nitrosomethylethylamine	10.0	8.01		ug/L		80	10 - 130
N-Nitrosomorpholine	10.0	6.87		ug/L		69	10 - 130
N-Nitrosopiperidine	10.0	8.89		ug/L		89	10 - 130
N-Nitrosopyrrolidine	10.0	7.31		ug/L		73	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 680-202119/15-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
o,o',o''-Triethylphosphorothioate	10.0	7.57		ug/L		76	10 - 130
o-Toluidine	10.0	6.78		ug/L		68	10 - 130
p-Dimethylamino azobenzene	10.0	8.83		ug/L		88	10 - 130
Pentachlorobenzene	10.0	8.67		ug/L		87	10 - 130
Pentachloronitrobenzene	10.0	9.65		ug/L		97	10 - 130
Phenacetin	10.0	9.32		ug/L		93	10 - 130
Phorate	10.0	9.48		ug/L		95	10 - 130
2-Picoline	10.0	6.96		ug/L		70	10 - 130
p-Phenylene diamine	50.0	200	U	ug/L		26	10 - 130
Pronamide	10.0	9.44		ug/L		94	10 - 130
Safrole, Total	10.0	7.96		ug/L		80	10 - 130
2-sec-Butyl-4,6-dinitrophenol	10.0	7.19		ug/L		72	10 - 130
Sulfotepp	10.0	9.10		ug/L		91	10 - 130
1,2,4,5-Tetrachlorobenzene	10.0	6.93		ug/L		69	10 - 130
2,3,4,6-Tetrachlorophenol	10.0	10.7		ug/L		107	10 - 130
Thionazin	10.0	9.80		ug/L		98	10 - 130
1,3,5-Trinitrobenzene	10.0	9.44		ug/L		94	10 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*34 - 130*
2-Fluorophenol	*56*		*25 - 130*
Nitrobenzene-d5	*57*		*32 - 130*
Phenol-d5	*51*		*27 - 130*
Terphenyl-d14	*66*		*36 - 130*
2,4,6-Tribromophenol	*72*		*30 - 130*

Lab Sample ID: LCSD 680-202119/16-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	10.0	9.58		ug/L		96	10 - 130	13	50
alpha,alpha-Dimethyl phenethylamine	10.0	8.04	J	ug/L		80	10 - 130	18	50
4-Aminobiphenyl	10.0	6.21		ug/L		62	10 - 130	9	50
Aramite, Total	10.0	9.93		ug/L		99	10 - 130	8	50
Diallate	10.0	8.10		ug/L		81	10 - 130	6	50
2,6-Dichlorophenol	10.0	9.51		ug/L		95	10 - 130	5	50
Dimethoate	10.0	9.12		ug/L		91	10 - 130	7	50
7,12-Dimethylbenz(a)anthracene	10.0	8.32		ug/L		83	10 - 130	6	50
3,3'-Dimethylbenzidine	25.0	31.2		ug/L		125	10 - 130	4	50
Disulfoton	10.0	8.90		ug/L		89	10 - 130	9	50
Ethyl methanesulfonate	10.0	6.19		ug/L		62	10 - 130	20	50
Ethyl Parathion	10.0	11.4		ug/L		114	10 - 130	11	50
Famphur	10.0	0.889	J *	ug/L		9	10 - 130	11	50
Hexachlorophene	50.0	500	U *	ug/L		9	10 - 130	18	50
Hexachloropropene	10.0	4.05		ug/L		40	10 - 130	9	50
Isosafrole	10.0	8.98		ug/L		90	10 - 130	3	50
m-Dinitrobenzene	10.0	9.90		ug/L		99	10 - 130	8	50
Methapyrilene	50.0	41.7	J	ug/L		83	10 - 130	14	50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 680-202119/16-A
Matrix: Water
Analysis Batch: 204675

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202119

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
3-Methylcholanthrene			10.0	9.79		ug/L		98	10 - 130	4	50
Methyl methanesulfonate			10.0	11.5		ug/L		115	10 - 130	13	50
Methyl parathion			10.0	9.80		ug/L		98	10 - 130	8	50
1-Naphthalenamine			10.0	6.72		ug/L		67	10 - 130	8	50
2-Naphthalenamine			10.0	5.57		ug/L		56	10 - 130	1	50
1,4-Naphthoquinone			10.0	4.86		ug/L		49	10 - 130	21	50
5-Nitro-o-toluidine			10.0	9.50		ug/L		95	10 - 130	3	50
4-Nitroquinoline-1-oxide			10.0	6.80		ug/L		68	10 - 130	14	50
N-Nitrosodiethylamine			10.0	8.06		ug/L		81	10 - 130	6	50
N-Nitrosodi-n-butylamine			10.0	8.30		ug/L		83	10 - 130	7	50
N-Nitrosomethylethylamine			10.0	10.1		ug/L		101	10 - 130	23	50
N-Nitrosomorpholine			10.0	8.25		ug/L		82	10 - 130	18	50
N-Nitrosopiperidine			10.0	9.38		ug/L		94	10 - 130	5	50
N-Nitrosopyrrolidine			10.0	8.39		ug/L		84	10 - 130	14	50
o,o',o''-Triethylphosphorothioate			10.0	7.78		ug/L		78	10 - 130	3	50
o-Toluidine			10.0	7.40		ug/L		74	10 - 130	9	50
p-Dimethylamino azobenzene			10.0	9.72		ug/L		97	10 - 130	10	50
Pentachlorobenzene			10.0	9.10		ug/L		91	10 - 130	5	50
Pentachloronitrobenzene			10.0	10.6		ug/L		106	10 - 130	9	50
Phenacetin			10.0	9.75		ug/L		97	10 - 130	5	50
Phorate			10.0	10.7		ug/L		107	10 - 130	12	50
2-Picoline			10.0	8.17		ug/L		82	10 - 130	16	50
p-Phenylene diamine			50.0	200	U	ug/L		26	10 - 130	3	50
Pronamide			10.0	10.4		ug/L		104	10 - 130	10	50
Safrole, Total			10.0	8.67		ug/L		87	10 - 130	8	50
2-sec-Butyl-4,6-dinitrophenol			10.0	8.62		ug/L		86	10 - 130	18	50
Sulfotepp			10.0	9.85		ug/L		99	10 - 130	8	50
1,2,4,5-Tetrachlorobenzene			10.0	7.17		ug/L		72	10 - 130	3	50
2,3,4,6-Tetrachlorophenol			10.0	11.5		ug/L		115	10 - 130	8	50
Thionazin			10.0	10.8		ug/L		108	10 - 130	10	50
1,3,5-Trinitrobenzene			10.0	9.93		ug/L		99	10 - 130	5	50

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*34 - 130*
2-Fluorophenol	*67*		*25 - 130*
Nitrobenzene-d5	*60*		*32 - 130*
Phenol-d5	*59*		*27 - 130*
Terphenyl-d14	*72*		*36 - 130*
2,4,6-Tribromophenol	*73*		*30 - 130*

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 204675

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	0.19	U	1.91	0.986		ug/L		52	42 - 130
Acenaphthylene	0.19	U	1.91	1.01		ug/L		53	45 - 130
Acetophenone	0.13	J B	9.54	4.09	F	ug/L		42	45 - 130
Aniline	1.9	U	9.54	1.9	U F	ug/L		0	10 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 204675

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Anthracene	0.19	U	1.91	1.13		ug/L		59	58 - 130
Benzo[a]anthracene	0.19	U	1.91	1.11		ug/L		58	42 - 143
Benzo[a]pyrene	0.19	U	1.91	0.824	F	ug/L		43	45 - 151
Benzo[b]fluoranthene	0.19	U	1.91	0.905		ug/L		47	41 - 140
Benzo[g,h,i]perylene	0.19	U	1.91	0.424	F	ug/L		22	27 - 134
Benzo[k]fluoranthene	0.19	U	1.91	0.900		ug/L		47	45 - 140
Benzyl alcohol	0.96	U	9.54	2.14	F	ug/L		22	34 - 130
1,1'-Biphenyl	0.96	U	9.54	4.77		ug/L		50	50 - 130
Bis(2-chloroethoxy)methane	0.96	U	9.54	4.61		ug/L		48	47 - 130
Bis(2-chloroethyl)ether	0.96	U	9.54	2.67	F	ug/L		28	36 - 130
Bis(2-ethylhexyl) phthalate	1.9	U	9.54	0.781	J F	ug/L		8	10 - 158
4-Bromophenyl phenyl ether	0.96	U	9.54	5.64		ug/L		59	44 - 130
Butyl benzyl phthalate	0.96	U	9.54	6.11		ug/L		64	60 - 130
4-Chloroaniline	1.9	U	9.54	1.9	U F	ug/L		0	17 - 130
4-Chloro-3-methylphenol	0.96	U	9.54	5.29		ug/L		55	54 - 130
2-Chloronaphthalene	0.96	U	9.54	4.42	F	ug/L		46	48 - 130
2-Chlorophenol	0.96	U	9.54	4.44		ug/L		47	45 - 130
4-Chlorophenyl phenyl ether	0.96	U	9.54	5.23		ug/L		55	52 - 130
Chrysene	0.19	U	1.91	1.14		ug/L		60	40 - 142
Dibenz(a,h)anthracene	0.19	U	1.91	0.396	F	ug/L		21	38 - 130
Dibenzofuran	0.96	U	9.54	5.11	F	ug/L		54	56 - 130
1,2-Dichlorobenzene	0.96	U	9.54	3.73		ug/L		39	36 - 130
1,3-Dichlorobenzene	0.96	U	9.54	3.54		ug/L		37	31 - 130
1,4-Dichlorobenzene	0.41	J B	9.54	3.58	F	ug/L		33	34 - 130
3,3'-Dichlorobenzidine	19	U	9.54	19	U F	ug/L		0	10 - 158
2,4-Dichlorophenol	0.96	U	9.54	5.04	F	ug/L		53	58 - 130
Diethyl phthalate	0.96	U	9.54	5.34	F	ug/L		56	60 - 130
2,4-Dimethylphenol	1.9	U	9.54	3.24	F	ug/L		34	41 - 130
Dimethyl phthalate	0.96	U	9.54	5.34	F	ug/L		56	58 - 130
Di-n-butyl phthalate	0.96	U	9.54	5.91		ug/L		62	59 - 130
4,6-Dinitro-2-methylphenol	4.8	U	9.54	4.79	J	ug/L		50	10 - 182
2,4-Dinitrophenol	9.6	U	9.54	6.81	J	ug/L		71	10 - 200
2,4-Dinitrotoluene	0.96	U	9.54	5.21	F	ug/L		55	57 - 130
2,6-Dinitrotoluene	0.96	U	9.54	4.87	F	ug/L		51	53 - 130
Di-n-octyl phthalate	0.96	U	9.54	0.540	J F	ug/L		6	19 - 130
1,4-Dioxane	4.0		9.54	5.32		ug/L		14	10 - 130
Fluoranthene	0.19	U	1.91	1.26		ug/L		66	46 - 136
Fluorene	0.19	U	1.91	1.15		ug/L		60	48 - 130
Hexachlorobenzene	0.96	U	9.54	4.89		ug/L		51	49 - 130
Hexachlorobutadiene	0.96	U	9.54	3.84		ug/L		40	36 - 130
Hexachlorocyclopentadiene	1.9	U	9.54	2.60		ug/L		27	16 - 130
Hexachloroethane	0.96	U	9.54	4.91		ug/L		51	32 - 130
Indeno[1,2,3-cd]pyrene	0.19	U	1.91	0.419		ug/L		22	12 - 130
Isophorone	0.96	U	9.54	3.62	F	ug/L		38	45 - 130
2-Methylnaphthalene	0.19	U	1.91	2.96	F	ug/L		155	51 - 130
2-Methylphenol	1.9	U	9.54	1.9	U F	ug/L		0	49 - 130
3 & 4 Methylphenol	1.9	U	9.54	3.03	F	ug/L		32	55 - 130
Naphthalene	0.19	U	1.91	0.943		ug/L		49	35 - 130
2-Nitroaniline	0.96	U	9.54	4.26	F	ug/L		45	48 - 130
3-Nitroaniline	4.8	U	9.54	1.02	J F	ug/L		11	18 - 147

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 204675

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Nitroaniline	4.8	U	9.54	4.8	U F	ug/L		0	31 - 147
Nitrobenzene	0.96	U	9.54	3.46	F	ug/L		36	45 - 130
2-Nitrophenol	0.96	U	9.54	4.78		ug/L		50	49 - 130
4-Nitrophenol	4.8	U	9.54	4.19	J	ug/L		44	36 - 132
N-Nitrosodimethylamine	0.96	U	9.54	3.52		ug/L		37	29 - 130
N-Nitrosodi-n-propylamine	0.96	U	9.54	4.23		ug/L		44	42 - 130
N-Nitrosodiphenylamine	0.96	U	9.54	5.52		ug/L		58	38 - 130
2,2'-oxybis[1-chloropropane]	0.96	U	9.54	3.40	F	ug/L		36	39 - 130
Pentachlorophenol	4.8	U	9.54	6.35		ug/L		67	12 - 156
Phenanthrene	0.19	U	1.91	1.20		ug/L		63	45 - 134
Phenol	0.96	U	9.54	1.32	F	ug/L		14	44 - 130
Pyrene	0.19	U	1.91	1.20		ug/L		63	47 - 143
Pyridine	4.8	U	9.54	2.60	J	ug/L		27	10 - 130
1,2,4-Trichlorobenzene	0.96	U	9.54	3.90		ug/L		41	39 - 130
2,4,5-Trichlorophenol	0.96	U	9.54	5.71	F	ug/L		60	61 - 130
2,4,6-Trichlorophenol	0.96	U	9.54	5.20	F	ug/L		55	61 - 130

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*50*		*34 - 130*
2-Fluorophenol	*43*		*25 - 130*
Nitrobenzene-d5	*42*		*32 - 130*
Phenol-d5	*42*		*27 - 130*
Terphenyl-d14	*50*		*36 - 130*
2,4,6-Tribromophenol	*62*		*30 - 130*

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 204675

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	0.19	U	1.91	1.14		ug/L		60	42 - 130	15	50
Acenaphthylene	0.19	U	1.91	1.14		ug/L		60	45 - 130	12	50
Acetophenone	0.13	J B	9.53	4.94		ug/L		51	45 - 130	19	50
Aniline	1.9	U	9.53	1.9	U F	ug/L		0	10 - 130	NC	50
Anthracene	0.19	U	1.91	1.27		ug/L		67	58 - 130	11	50
Benzo[a]anthracene	0.19	U	1.91	1.24		ug/L		65	42 - 143	10	50
Benzo[a]pyrene	0.19	U	1.91	1.10		ug/L		57	45 - 151	28	50
Benzo[b]fluoranthene	0.19	U	1.91	1.22		ug/L		64	41 - 140	30	50
Benzo[g,h,i]perylene	0.19	U	1.91	0.671		ug/L		35	27 - 134	45	50
Benzo[k]fluoranthene	0.19	U	1.91	1.18		ug/L		62	45 - 140	27	50
Benzyl alcohol	0.96	U	9.53	2.59	F	ug/L		27	34 - 130	19	50
1,1'-Biphenyl	0.96	U	9.53	5.45		ug/L		57	50 - 130	13	50
Bis(2-chloroethoxy)methane	0.96	U	9.53	5.68		ug/L		60	47 - 130	21	50
Bis(2-chloroethyl)ether	0.96	U	9.53	3.64		ug/L		38	36 - 130	31	50
Bis(2-ethylhexyl) phthalate	1.9	U	9.53	1.18	J	ug/L		12	10 - 158	41	50
4-Bromophenyl phenyl ether	0.96	U	9.53	6.50		ug/L		68	44 - 130	14	50
Butyl benzyl phthalate	0.96	U	9.53	6.80		ug/L		71	60 - 130	11	50
4-Chloroaniline	1.9	U	9.53	1.9	U F	ug/L		0	17 - 130	NC	50
4-Chloro-3-methylphenol	0.96	U	9.53	0.558	J F	ug/L		6	54 - 130	162	50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 204675

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 202119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene	0.96	U	9.53	5.09		ug/L		53	48 - 130	14	50
2-Chlorophenol	0.96	U	9.53	4.88		ug/L		51	45 - 130	9	50
4-Chlorophenyl phenyl ether	0.96	U	9.53	5.60		ug/L		59	52 - 130	7	50
Chrysene	0.19	U	1.91	1.31		ug/L		68	40 - 142	13	50
Dibenz(a,h)anthracene	0.19	U	1.91	0.645	F	ug/L		34	38 - 130	48	50
Dibenzofuran	0.96	U	9.53	5.75		ug/L		60	56 - 130	12	50
1,2-Dichlorobenzene	0.96	U	9.53	4.50		ug/L		47	36 - 130	19	50
1,3-Dichlorobenzene	0.96	U	9.53	4.25		ug/L		45	31 - 130	18	50
1,4-Dichlorobenzene	0.41	J B	9.53	5.13		ug/L		50	34 - 130	36	50
3,3'-Dichlorobenzidine	19	U	9.53	19	U F	ug/L		0	10 - 158	NC	50
2,4-Dichlorophenol	0.96	U	9.53	3.93	F	ug/L		41	58 - 130	25	50
Diethyl phthalate	0.96	U	9.53	5.80		ug/L		61	60 - 130	8	50
2,4-Dimethylphenol	1.9	U	9.53	4.57		ug/L		48	41 - 130	34	50
Dimethyl phthalate	0.96	U	9.53	5.80		ug/L		61	58 - 130	8	50
Di-n-butyl phthalate	0.96	U	9.53	6.81		ug/L		72	59 - 130	14	50
4,6-Dinitro-2-methylphenol	4.8	U	9.53	5.71		ug/L		60	10 - 182	18	50
2,4-Dinitrophenol	9.6	U	9.53	7.70	J	ug/L		81	10 - 200	12	50
2,4-Dinitrotoluene	0.96	U	9.53	5.48		ug/L		58	57 - 130	5	50
2,6-Dinitrotoluene	0.96	U	9.53	5.23		ug/L		55	53 - 130	7	50
Di-n-octyl phthalate	0.96	U	9.53	0.960	F	ug/L		10	19 - 130	56	50
1,4-Dioxane	4.0		9.53	8.42		ug/L		46	10 - 130	45	50
Fluoranthene	0.19	U	1.91	1.40		ug/L		73	46 - 136	10	50
Fluorene	0.19	U	1.91	1.24		ug/L		65	48 - 130	8	50
Hexachlorobenzene	0.96	U	9.53	5.83		ug/L		61	49 - 130	18	50
Hexachlorobutadiene	0.96	U	9.53	4.92		ug/L		52	36 - 130	25	50
Hexachlorocyclopentadiene	1.9	U	9.53	3.30		ug/L		35	16 - 130	24	50
Hexachloroethane	0.96	U	9.53	6.16		ug/L		65	32 - 130	23	50
Indeno[1,2,3-cd]pyrene	0.19	U	1.91	0.618		ug/L		32	12 - 130	38	50
Isophorone	0.96	U	9.53	4.58		ug/L		48	45 - 130	24	50
2-Methylnaphthalene	0.19	U	1.91	1.07	F	ug/L		56	51 - 130	94	50
2-Methylphenol	1.9	U	9.53	0.782	J F	ug/L		8	49 - 130	NC	50
3 & 4 Methylphenol	1.9	U	9.53	3.60	F	ug/L		38	55 - 130	17	50
Naphthalene	0.19	U	1.91	1.13		ug/L		60	35 - 130	18	50
2-Nitroaniline	0.96	U	9.53	4.56		ug/L		48	48 - 130	7	50
3-Nitroaniline	4.8	U	9.53	0.192	J F	ug/L		2	18 - 147	137	50
4-Nitroaniline	4.8	U	9.53	4.8	U F	ug/L		0	31 - 147	NC	50
Nitrobenzene	0.96	U	9.53	5.02		ug/L		53	45 - 130	37	50
2-Nitrophenol	0.96	U	9.53	6.53		ug/L		69	49 - 130	31	50
4-Nitrophenol	4.8	U	9.53	4.46	J	ug/L		47	36 - 132	6	50
N-Nitrosodimethylamine	0.96	U	9.53	4.34		ug/L		46	29 - 130	21	50
N-Nitrosodi-n-propylamine	0.96	U	9.53	5.29		ug/L		56	42 - 130	22	50
N-Nitrosodiphenylamine	0.96	U	9.53	6.16		ug/L		65	38 - 130	11	50
2,2'-oxybis[1-chloropropane]	0.96	U	9.53	4.19		ug/L		44	39 - 130	21	50
Pentachlorophenol	4.8	U	9.53	7.35		ug/L		77	12 - 156	15	50
Phenanthrene	0.19	U	1.91	1.39		ug/L		73	45 - 134	15	50
Phenol	0.96	U	9.53	3.33	F	ug/L		35	44 - 130	87	50
Pyrene	0.19	U	1.91	1.30		ug/L		68	47 - 143	8	50
Pyridine	4.8	U	9.53	3.59	J	ug/L		38	10 - 130	32	50
1,2,4-Trichlorobenzene	0.96	U	9.53	4.83		ug/L		51	39 - 130	21	50
2,4,5-Trichlorophenol	0.96	U	9.53	6.37		ug/L		67	61 - 130	11	50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67898-2 MSD — **Client Sample ID: MW-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 204675 — **Prep Batch: 202119**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2,4,6-Trichlorophenol	0.96	U	9.53	5.97		ug/L		63	61 - 130	14	50

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*34 - 130*
2-Fluorophenol	*57*		*25 - 130*
Nitrobenzene-d5	*52*		*32 - 130*
Phenol-d5	*38*		*27 - 130*
Terphenyl-d14	*59*		*36 - 130*
2,4,6-Tribromophenol	*63*		*30 - 130*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 680-202840/25 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			05/12/11 20:00	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 20:00	1
Methanol	1000	U	1000	830	ug/L			05/12/11 20:00	1

Lab Sample ID: LCS 680-202840/26 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	21500		ug/L		108	38 - 156
Isopropanol	20000	20900		ug/L		105	70 - 130
Methanol	20000	21000		ug/L		105	43 - 143

Lab Sample ID: LCSD 680-202840/27 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	22100		ug/L		111	38 - 156	3	50
Isopropanol	20000	21500		ug/L		108	70 - 130	3	50
Methanol	20000	21500		ug/L		108	43 - 143	3	50

Lab Sample ID: 680-67898-2 MS — **Client Sample ID: MW-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	1000	U	20000	23200		ug/L		116	38 - 156
Isopropanol	1000	U	20000	21100		ug/L		106	70 - 130
Methanol	5100		20000	21000		ug/L		79	43 - 143

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: 680-67898-2 MSD — **Client Sample ID: MW-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	1000	U	20000	23000		ug/L		115	38 - 156	1	50
Isopropanol	1000	U	20000	20900		ug/L		105	70 - 130	1	50
Methanol	5100		20000	20900		ug/L		79	43 - 143	0	50

Lab Sample ID: MB 680-202859/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			05/13/11 09:19	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 09:19	1
Methanol	1000	U	1000	830	ug/L			05/13/11 09:19	1

Lab Sample ID: LCS 680-202859/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	21900		ug/L		109	38 - 156
Isopropanol	20000	21300		ug/L		106	70 - 130
Methanol	20000	21200		ug/L		106	43 - 143

Lab Sample ID: LCSD 680-202859/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202859

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	19900		ug/L		100	38 - 156	9	50
Isopropanol	20000	19300		ug/L		96	70 - 130	10	50
Methanol	20000	19400		ug/L		97	43 - 143	9	50

Lab Sample ID: MB 680-203320/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 203320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1000	U	1000	330	ug/L			05/17/11 16:58	1
Isopropanol	1000	U	1000	300	ug/L			05/17/11 16:58	1
Methanol	1000	U	1000	830	ug/L			05/17/11 16:58	1

Lab Sample ID: LCS 680-203320/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 203320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	22700		ug/L		114	38 - 156
Isopropanol	20000	22000		ug/L		110	70 - 130
Methanol	20000	21800		ug/L		109	43 - 143

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCSD 680-203320/7
Matrix: Water
Analysis Batch: 203320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	22900		ug/L		115	38 - 156	1	50
Isopropanol	20000	22200		ug/L		111	70 - 130	1	50
Methanol	20000	21900		ug/L		110	43 - 143	1	50

Lab Sample ID: MB 680-204206/8
Matrix: Water
Analysis Batch: 204206

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/26/11 14:46	1

Lab Sample ID: LCS 680-204206/6
Matrix: Water
Analysis Batch: 204206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	20000	23600		ug/L		118	70 - 130

Lab Sample ID: LCSD 680-204206/7
Matrix: Water
Analysis Batch: 204206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	20000	19300		ug/L		97	70 - 130	20	50

Lab Sample ID: MB 680-204805/24
Matrix: Water
Analysis Batch: 204805

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 19:55	1

Lab Sample ID: LCS 680-204805/22
Matrix: Water
Analysis Batch: 204805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	20000	18500		ug/L		93	70 - 130

Lab Sample ID: LCSD 680-204805/23
Matrix: Water
Analysis Batch: 204805

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	20000	18300		ug/L		91	70 - 130	1	50

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 204805

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	1000	U	20000	17200		ug/L		86	70 - 130

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 204805

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	1000	U	20000	16300		ug/L		81	70 - 130	5	50

Lab Sample ID: MB 680-205003/6
Matrix: Water
Analysis Batch: 205003

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/13/11 20:20	1

Lab Sample ID: LCS 680-205003/4
Matrix: Water
Analysis Batch: 205003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Allyl alcohol	20000	16500		ug/L		83	70 - 130

Lab Sample ID: LCSD 680-205003/5
Matrix: Water
Analysis Batch: 205003

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Allyl alcohol	20000	13400	*	ug/L		67	70 - 130	21	50

Lab Sample ID: MB 680-205181/3
Matrix: Water
Analysis Batch: 205181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			06/07/11 16:07	1
Ethanol	1000	U	1000	330	ug/L			06/07/11 16:07	1
Isopropanol	1000	U	1000	300	ug/L			06/07/11 16:07	1
Methanol	1000	U	1000	830	ug/L			06/07/11 16:07	1

Lab Sample ID: LCS 680-205181/4
Matrix: Water
Analysis Batch: 205181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ethanol	20000	16200		ug/L		81	38 - 156
Isopropanol	20000	15800		ug/L		79	70 - 130
Methanol	20000	16800		ug/L		84	43 - 143

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCSD 680-205181/5
Matrix: Water
Analysis Batch: 205181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethanol	20000	16400		ug/L		82	38 - 156	1	50
Isopropanol	20000	16000		ug/L		80	70 - 130	1	50
Methanol	20000	17000		ug/L		85	43 - 143	1	50

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-201997/1-A
Matrix: Water
Analysis Batch: 202609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 06:46	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 06:46	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 06:46	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 06:46	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 06:46	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 06:46	1
Calcium	500	U	500	170	ug/L		05/05/11 11:21	05/11/11 06:46	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 06:46	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 06:46	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 06:46	1
Iron	100	U	100	44	ug/L		05/05/11 11:21	05/11/11 06:46	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 06:46	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 06:46	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 06:46	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 06:46	1
Nickel	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 06:46	1
Potassium	356	J	1000	330	ug/L		05/05/11 11:21	05/11/11 06:46	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 06:46	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 06:46	1
Sodium	500	U	500	170	ug/L		05/05/11 11:21	05/11/11 06:46	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 06:46	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 06:46	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 06:46	1

Lab Sample ID: LCS 680-201997/2-A
Matrix: Water
Analysis Batch: 202609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5000	5210		ug/L		104	75 - 125
Antimony	50.0	52.2		ug/L		104	75 - 125
Arsenic	100	104		ug/L		104	75 - 125
Barium	100	99.0		ug/L		99	75 - 125
Beryllium	50.0	49.5		ug/L		99	75 - 125
Cadmium	50.0	49.2		ug/L		98	75 - 125
Calcium	5000	5260		ug/L		105	75 - 125
Chromium	100	103		ug/L		103	75 - 125
Cobalt	50.0	48.0		ug/L		96	75 - 125
Copper	100	106		ug/L		106	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-201997/2-A
Matrix: Water
Analysis Batch: 202609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Iron	5000	5240		ug/L		105	75 - 125
Lead	50.0	50.9		ug/L		102	75 - 125
Magnesium	5000	5340		ug/L		107	75 - 125
Manganese	500	530		ug/L		106	75 - 125
Mercury	5.00	4.39		ug/L		88	75 - 125
Nickel	100	106		ug/L		106	75 - 125
Potassium	5000	5490		ug/L		110	75 - 125
Selenium	100	103		ug/L		103	75 - 125
Silver	50.0	48.9		ug/L		98	75 - 125
Sodium	5000	5220		ug/L		104	75 - 125
Thallium	40.0	40.1		ug/L		100	75 - 125
Vanadium	100	103		ug/L		103	75 - 125
Zinc	100	102		ug/L		102	75 - 125

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 202609

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 201997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Sodium	470000		5000	478000	4	ug/L		89	75 - 125

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 202609

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 201997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	120		5000	5770		ug/L		113	75 - 125
Antimony	5.0	U	50.0	52.4		ug/L		105	75 - 125
Arsenic	3.8		100	109		ug/L		105	75 - 125
Barium	760		100	885	4	ug/L		121	75 - 125
Beryllium	0.50	U	50.0	50.1		ug/L		100	75 - 125
Cadmium	0.50	U	50.0	47.2		ug/L		94	75 - 125
Calcium	110000		5000	123000	4	ug/L		179	75 - 125
Chromium	4.1	J	100	112		ug/L		107	75 - 125
Cobalt	9.5		50.0	57.2		ug/L		95	75 - 125
Copper	3.7	J	100	106		ug/L		103	75 - 125
Iron	61000		5000	69800	4	ug/L		175	75 - 125
Lead	1.5	U	50.0	47.5		ug/L		95	75 - 125
Magnesium	36000		5000	42500	4	ug/L		129	75 - 125
Manganese	2300		500	2840	4	ug/L		103	75 - 125
Mercury	0.80	U	5.00	5.32		ug/L		106	75 - 125
Nickel	4.3	J	100	107		ug/L		103	75 - 125
Potassium	6300	B	5000	12400		ug/L		122	75 - 125
Selenium	2.5	U	100	99.3		ug/L		99	75 - 125
Silver	1.0	U	50.0	46.9		ug/L		94	75 - 125
Thallium	1.0	U	40.0	38.0		ug/L		95	75 - 125
Vanadium	4.3	J	100	112		ug/L		108	75 - 125
Zinc	9.4	J	100	109		ug/L		100	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 202609

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 201997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sodium	470000		5000	472000	4	ug/L		-24	75 - 125	1	20

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 202609

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 201997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	120		5000	5500		ug/L		108	75 - 125	5	20
Antimony	5.0	U	50.0	51.7		ug/L		103	75 - 125	1	20
Arsenic	3.8		100	105		ug/L		102	75 - 125	3	20
Barium	760		100	875	4	ug/L		111	75 - 125	1	20
Beryllium	0.50	U	50.0	49.9		ug/L		100	75 - 125	0	20
Cadmium	0.50	U	50.0	47.0		ug/L		94	75 - 125	0	20
Calcium	110000		5000	119000	4	ug/L		96	75 - 125	3	20
Chromium	4.1	J	100	109		ug/L		105	75 - 125	2	20
Cobalt	9.5		50.0	56.4		ug/L		94	75 - 125	1	20
Copper	3.7	J	100	104		ug/L		100	75 - 125	2	20
Iron	61000		5000	67800	4	ug/L		136	75 - 125	3	20
Lead	1.5	U	50.0	46.5		ug/L		93	75 - 125	2	20
Magnesium	36000		5000	41200	4	ug/L		102	75 - 125	3	20
Manganese	2300		500	2780	4	ug/L		91	75 - 125	2	20
Mercury	0.80	U	5.00	5.22		ug/L		104	75 - 125	2	20
Nickel	4.3	J	100	105		ug/L		100	75 - 125	3	20
Potassium	6300	B	5000	12300		ug/L		119	75 - 125	1	20
Selenium	2.5	U	100	97.8		ug/L		98	75 - 125	1	20
Silver	1.0	U	50.0	46.3		ug/L		93	75 - 125	1	20
Thallium	1.0	U	40.0	37.3		ug/L		93	75 - 125	2	20
Vanadium	4.3	J	100	110		ug/L		105	75 - 125	2	20
Zinc	9.4	J	100	107		ug/L		98	75 - 125	1	20

Lab Sample ID: MB 680-201999/1-A
Matrix: Water
Analysis Batch: 202609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 201999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	23	ug/L		05/05/11 12:02	05/11/11 11:04	1
Antimony	5.0	U	5.0	2.3	ug/L		05/05/11 12:02	05/11/11 11:04	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 12:02	05/11/11 11:04	1
Barium	5.0	U	5.0	1.3	ug/L		05/05/11 12:02	05/11/11 11:04	1
Beryllium	0.50	U	0.50	0.25	ug/L		05/05/11 12:02	05/11/11 11:04	1
Cadmium	0.50	U	0.50	0.095	ug/L		05/05/11 12:02	05/11/11 11:04	1
Calcium	250	U	250	130	ug/L		05/05/11 12:02	05/11/11 11:04	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 12:02	05/11/11 11:04	1
Cobalt	0.50	U	0.50	0.15	ug/L		05/05/11 12:02	05/11/11 11:04	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 12:02	05/11/11 11:04	1
Iron	100	U	100	33	ug/L		05/05/11 12:02	05/11/11 11:04	1
Lead	1.5	U	1.5	0.20	ug/L		05/05/11 12:02	05/11/11 11:04	1
Magnesium	250	U	250	43	ug/L		05/05/11 12:02	05/11/11 11:04	1
Manganese	5.0	U	5.0	1.0	ug/L		05/05/11 12:02	05/11/11 11:04	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 12:02	05/11/11 11:04	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-201999/1-A
Matrix: Water
Analysis Batch: 202609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 201999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	5.0	U	5.0	2.0	ug/L		05/05/11 12:02	05/11/11 11:04	1
Potassium	500	U	500	170	ug/L		05/05/11 12:02	05/11/11 11:04	1
Selenium	2.5	U	2.5	1.0	ug/L		05/05/11 12:02	05/11/11 11:04	1
Silver	1.0	U	1.0	0.25	ug/L		05/05/11 12:02	05/11/11 11:04	1
Sodium	500	U	500	250	ug/L		05/05/11 12:02	05/11/11 11:04	1
Thallium	1.0	U	1.0	0.50	ug/L		05/05/11 12:02	05/11/11 11:04	1
Vanadium	10	U	10	3.8	ug/L		05/05/11 12:02	05/11/11 11:04	1
Zinc	20	U	20	8.3	ug/L		05/05/11 12:02	05/11/11 11:04	1

Lab Sample ID: LCS 680-201999/2-A
Matrix: Water
Analysis Batch: 202609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 201999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5000	5260		ug/L		105	75 - 125
Antimony	50.0	52.2		ug/L		104	75 - 125
Arsenic	100	107		ug/L		107	75 - 125
Barium	100	98.4		ug/L		98	75 - 125
Beryllium	50.0	50.7		ug/L		101	75 - 125
Cadmium	50.0	49.7		ug/L		99	75 - 125
Calcium	5000	5320		ug/L		106	75 - 125
Chromium	100	105		ug/L		105	75 - 125
Cobalt	50.0	48.4		ug/L		97	75 - 125
Copper	100	107		ug/L		107	75 - 125
Iron	5000	5320		ug/L		106	75 - 125
Lead	50.0	49.5		ug/L		99	75 - 125
Magnesium	5000	5360		ug/L		107	75 - 125
Manganese	500	534		ug/L		107	75 - 125
Mercury	5.00	4.41		ug/L		88	75 - 125
Nickel	100	107		ug/L		107	75 - 125
Potassium	5000	5440		ug/L		109	75 - 125
Selenium	100	107		ug/L		107	75 - 125
Silver	50.0	48.7		ug/L		97	75 - 125
Sodium	5000	5300		ug/L		106	75 - 125
Thallium	40.0	39.2		ug/L		98	75 - 125
Vanadium	100	104		ug/L		104	75 - 125
Zinc	100	106		ug/L		106	75 - 125

Lab Sample ID: 680-67898-U-2-A MS
Matrix: Water
Analysis Batch: 202609

Client Sample ID: 680-67898-U-2-A MS
Prep Type: Dissolved
Prep Batch: 201999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	50		5000	5100		ug/L		102	75 - 125
Antimony	5.0		50.0	53.0		ug/L		106	75 - 125
Arsenic	3.9		100	110		ug/L		107	75 - 125
Barium	780		100	876	4	ug/L		93	75 - 125
Beryllium	0.50		50.0	52.0		ug/L		104	75 - 125
Cadmium	0.50		50.0	47.9		ug/L		96	75 - 125
Calcium	120000		5000	121000	4	ug/L		40	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-67898-U-2-A MS
Matrix: Water
Analysis Batch: 202609

Client Sample ID: 680-67898-U-2-A MS
Prep Type: Dissolved
Prep Batch: 201999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	3.2		100	108		ug/L		105	75 - 125
Cobalt	9.7		50.0	56.7		ug/L		94	75 - 125
Copper	5.0		100	102		ug/L		102	75 - 125
Iron	64000		5000	67800	4	ug/L		74	75 - 125
Lead	0.54		50.0	47.0		ug/L		93	75 - 125
Magnesium	38000		5000	42100	4	ug/L		87	75 - 125
Manganese	2400		500	2870	4	ug/L		95	75 - 125
Mercury	0.80		5.00	5.18		ug/L		104	75 - 125
Nickel	4.1		100	105		ug/L		101	75 - 125
Potassium	6600		5000	12200		ug/L		112	75 - 125
Selenium	2.5		100	103		ug/L		103	75 - 125
Silver	1.0		50.0	47.0		ug/L		94	75 - 125
Thallium	1.0		40.0	37.6		ug/L		94	75 - 125
Vanadium	4.1		100	110		ug/L		106	75 - 125
Zinc	8.3		100	112		ug/L		112	75 - 125

Lab Sample ID: 680-67898-U-2-B MSD
Matrix: Water
Analysis Batch: 202609

Client Sample ID: 680-67898-U-2-B MSD
Prep Type: Dissolved
Prep Batch: 201999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	50		5000	5120		ug/L		102	75 - 125	0	20
Antimony	5.0		50.0	53.2		ug/L		106	75 - 125	0	20
Arsenic	3.9		100	110		ug/L		106	75 - 125	0	20
Barium	780		100	900	4	ug/L		117	75 - 125	3	20
Beryllium	0.50		50.0	51.6		ug/L		103	75 - 125	1	20
Cadmium	0.50		50.0	48.2		ug/L		96	75 - 125	1	20
Calcium	120000		5000	123000	4	ug/L		76	75 - 125	1	20
Chromium	3.2		100	108		ug/L		105	75 - 125	0	20
Cobalt	9.7		50.0	57.4		ug/L		95	75 - 125	1	20
Copper	5.0		100	103		ug/L		103	75 - 125	1	20
Iron	64000		5000	68400	4	ug/L		88	75 - 125	1	20
Lead	0.54		50.0	47.9		ug/L		95	75 - 125	2	20
Magnesium	38000		5000	42400	4	ug/L		93	75 - 125	1	20
Manganese	2400		500	2940	4	ug/L		108	75 - 125	2	20
Mercury	0.80		5.00	5.36		ug/L		107	75 - 125	3	20
Nickel	4.1		100	106		ug/L		102	75 - 125	1	20
Potassium	6600		5000	12400		ug/L		118	75 - 125	2	20
Selenium	2.5		100	104		ug/L		104	75 - 125	1	20
Silver	1.0		50.0	47.7		ug/L		95	75 - 125	1	20
Thallium	1.0		40.0	38.3		ug/L		96	75 - 125	2	20
Vanadium	4.1		100	111		ug/L		107	75 - 125	0	20
Zinc	8.3		100	112		ug/L		112	75 - 125	1	20

Method: 325.2 - Chloride

Lab Sample ID: MB 680-203698/4
Matrix: Water
Analysis Batch: 203698

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/21/11 12:21	1

Lab Sample ID: LCS 680-203698/2
Matrix: Water
Analysis Batch: 203698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Chloride			50000	51600		ug/L		103	85 - 115		

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 203698

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Chloride	540000		50000	550000	4	ug/L		22	85 - 115		

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 203698

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	540000		50000	562000	4	ug/L		46	85 - 115	2	30

Lab Sample ID: 680-67898-10 DU
Matrix: Water
Analysis Batch: 203698

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	1000000		1010000		ug/L		0.5	30

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-203165/1-A
Matrix: Water
Analysis Batch: 203380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1

Lab Sample ID: LCS 680-203165/2-A
Matrix: Water
Analysis Batch: 203380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203165

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Nitrogen, Kjeldahl			1000	906		ug/L		91	75 - 125		

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 203380

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 203165

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	7500		1000	6590	4	ug/L		-88	75 - 125

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 203380

Client Sample ID: MW-4
Prep Type: Total/NA
Prep Batch: 203165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	7500		1000	7740	4	ug/L		27	75 - 125	16	40

Lab Sample ID: MB 680-203166/1-A
Matrix: Water
Analysis Batch: 203380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1

Lab Sample ID: LCS 680-203166/2-A
Matrix: Water
Analysis Batch: 203380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	1000	868		ug/L		87	75 - 125

Lab Sample ID: 680-67948-1 DU
Matrix: Water
Analysis Batch: 203380

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 203166

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Kjeldahl	280		300		ug/L		9	40

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-201554/14
Matrix: Water
Analysis Batch: 201554

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:15	1
Nitrate Nitrite as N	50	U	50	10	ug/L			04/30/11 22:15	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:15	1

Lab Sample ID: LCS 680-201554/15
Matrix: Water
Analysis Batch: 201554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	500	479		ug/L		96	
Nitrate Nitrite as N	1000	960		ug/L		96	90 - 110
Nitrite as N	500	481		ug/L		96	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 201554

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	50	U	500	496		ug/L		99	
Nitrate Nitrite as N	17		1000	1010		ug/L		99	90 - 110
Nitrite as N	12	J	500	515		ug/L		101	90 - 110

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 201554

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrate as N	50	U	500	484		ug/L		97		2	
Nitrate Nitrite as N	17		1000	998		ug/L		98	90 - 110	1	10
Nitrite as N	12	J	500	514		ug/L		100	90 - 110	0	10

Lab Sample ID: MB 680-201794/14
Matrix: Water
Analysis Batch: 201794

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	50	U	50	10	ug/L			05/03/11 18:28	1
Nitrate Nitrite as N	50	U	50	10	ug/L			05/03/11 18:28	1
Nitrite as N	50	U	50	10	ug/L			05/03/11 18:28	1

Lab Sample ID: LCS 680-201794/15
Matrix: Water
Analysis Batch: 201794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	500	479		ug/L		96	
Nitrate Nitrite as N	1000	966		ug/L		97	90 - 110
Nitrite as N	500	487		ug/L		97	90 - 110

Lab Sample ID: 680-67948-1 MS
Matrix: Water
Analysis Batch: 201794

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	19	J	500	523		ug/L		101	
Nitrate Nitrite as N	19		1000	1040		ug/L		103	90 - 110
Nitrite as N	50	U	500	522		ug/L		104	90 - 110

Lab Sample ID: 680-67948-1 MSD
Matrix: Water
Analysis Batch: 201794

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrate as N	19	J	500	517		ug/L		100		1	
Nitrate Nitrite as N	19		1000	1040		ug/L		102	90 - 110	0	10
Nitrite as N	50	U	500	527		ug/L		105	90 - 110	1	10

Method: 375.4 - Sulfate

Lab Sample ID: MB 680-203777/1
Matrix: Water
Analysis Batch: 203777

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5000	U	5000	2500	ug/L			05/23/11 11:17	1

Lab Sample ID: LCS 680-203777/2
Matrix: Water
Analysis Batch: 203777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	20000	18900		ug/L		95	75 - 125

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 203777

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	50000	U	200000	190000		ug/L		95	75 - 125

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 203777

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Sulfate	50000	U	200000	189000		ug/L		94	75 - 125	1	30

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-203407/15
Matrix: Water
Analysis Batch: 203407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 16:19	1

Lab Sample ID: LCS 680-203407/19
Matrix: Water
Analysis Batch: 203407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	20000	18000		ug/L		90	80 - 120

Lab Sample ID: 680-67898-2 MS
Matrix: Water
Analysis Batch: 203407

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Organic Carbon	32000		20000	50500		ug/L		94	80 - 120

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 680-67898-2 MSD
Matrix: Water
Analysis Batch: 203407

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Total Organic Carbon	32000		20000	49600		ug/L		90	80 - 120	2	25

GC/MS VOA

Analysis Batch: 201948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8260B	
680-67898-11	TRIP BLANK 4	Total/NA	Water	8260B	
680-67898-8	FIELD BLANK	Total/NA	Water	8260B	
LCS 680-201948/10	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-201948/11	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-201948/13	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 202151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202151/6	Lab Control Sample	Total/NA	Water	8260B	
MB 680-202151/7	Method Blank	Total/NA	Water	8260B	
LCSD 680-202151/8	Lab Control Sample Dup	Total/NA	Water	8260B	
680-67898-1	VFSP-MW-1	Total/NA	Water	8260B	
680-67898-2	MW-4	Total/NA	Water	8260B	
680-67898-4	MW-4U	Total/NA	Water	8260B	
680-67898-5	MW-9	Total/NA	Water	8260B	
680-67898-6	MW-5	Total/NA	Water	8260B	
680-67898-7	MW-5U	Total/NA	Water	8260B	
680-67898-10	MW-2	Total/NA	Water	8260B	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8260B	

Analysis Batch: 202173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-2 - DL	MW-4	Total/NA	Water	8260B	
680-67898-4 - DL	MW-4U	Total/NA	Water	8260B	
680-67898-5 - DL	MW-9	Total/NA	Water	8260B	
680-67898-6 - DL	MW-5	Total/NA	Water	8260B	
680-67898-7 - DL	MW-5U	Total/NA	Water	8260B	
680-67898-9 - DL	FIELD DUPLICATE	Total/NA	Water	8260B	
680-67898-10 - DL	MW-2	Total/NA	Water	8260B	
LCS 680-202173/12	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-202173/13	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-202173/15	Method Blank	Total/NA	Water	8260B	
680-67898-2 MS	MW-4	Total/NA	Water	8260B	
680-67898-2 MSD	MW-4	Total/NA	Water	8260B	

Analysis Batch: 202245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67948-3	Trip Blank	Total/NA	Water	8260B	
680-67948-1	MW-1	Total/NA	Water	8260B	
680-67948-2	NAT-4	Total/NA	Water	8260B	
LCS 680-202245/15	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-202245/16	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-202245/18	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 202323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202323/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-202323/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-202323/8	Method Blank	Total/NA	Water	8260B	
680-67948-1 - DL	MW-1	Total/NA	Water	8260B	
680-67948-2 - DL	NAT-4	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 202119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-2	MW-4	Total/NA	Water	3520C	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	3520C	
680-67898-4	MW-4U	Total/NA	Water	3520C	
680-67898-5	MW-9	Total/NA	Water	3520C	
680-67898-6	MW-5	Total/NA	Water	3520C	
680-67898-7	MW-5U	Total/NA	Water	3520C	
680-67898-8	FIELD BLANK	Total/NA	Water	3520C	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	3520C	
680-67898-10	MW-2	Total/NA	Water	3520C	
680-67948-1	MW-1	Total/NA	Water	3520C	
MB 680-202119/11-A	Method Blank	Total/NA	Water	3520C	
LCS 680-202119/12-A	Lab Control Sample	Total/NA	Water	3520C	
680-67898-2 MS	MW-4	Total/NA	Water	3520C	
680-67898-2 MSD	MW-4	Total/NA	Water	3520C	
LCS 680-202119/15-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-202119/16-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 204675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202119/15-A	Lab Control Sample	Total/NA	Water	8270C LL	202119
LCSD 680-202119/16-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	202119
680-67898-2	MW-4	Total/NA	Water	8270C LL	202119
LCS 680-202119/12-A	Lab Control Sample	Total/NA	Water	8270C LL	202119
680-67898-4	MW-4U	Total/NA	Water	8270C LL	202119
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8270C LL	202119
680-67898-5	MW-9	Total/NA	Water	8270C LL	202119
680-67898-6	MW-5	Total/NA	Water	8270C LL	202119
680-67898-7	MW-5U	Total/NA	Water	8270C LL	202119
680-67898-8	FIELD BLANK	Total/NA	Water	8270C LL	202119
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8270C LL	202119
680-67898-10	MW-2	Total/NA	Water	8270C LL	202119
680-67948-1	MW-1	Total/NA	Water	8270C LL	202119
MB 680-202119/11-A	Method Blank	Total/NA	Water	8270C LL	202119
680-67898-2 MS	MW-4	Total/NA	Water	8270C LL	202119
680-67898-2 MSD	MW-4	Total/NA	Water	8270C LL	202119

GC VOA

Analysis Batch: 202840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-1	VFSP-MW-1	Total/NA	Water	8015B	
680-67898-2	MW-4	Total/NA	Water	8015B	
680-67898-2 MS	MW-4	Total/NA	Water	8015B	
680-67898-2 MSD	MW-4	Total/NA	Water	8015B	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8015B	
680-67898-4	MW-4U	Total/NA	Water	8015B	
680-67898-5	MW-9	Total/NA	Water	8015B	
680-67898-6	MW-5	Total/NA	Water	8015B	
680-67898-7	MW-5U	Total/NA	Water	8015B	
680-67898-8	FIELD BLANK	Total/NA	Water	8015B	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8015B	
680-67898-10	MW-2	Total/NA	Water	8015B	

GC VOA (Continued)

Analysis Batch: 202840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202840/25	Method Blank	Total/NA	Water	8015B	
LCS 680-202840/26	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-202840/27	Lab Control Sample Dup	Total/NA	Water	8015B	

Analysis Batch: 202859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202859/4	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-202859/5	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-202859/6	Method Blank	Total/NA	Water	8015B	
680-67898-7	MW-5U	Total/NA	Water	8015B	
680-67898-10	MW-2	Total/NA	Water	8015B	

Analysis Batch: 203320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67948-1	MW-1	Total/NA	Water	8015B	
680-67948-2	NAT-4	Total/NA	Water	8015B	
MB 680-203320/5	Method Blank	Total/NA	Water	8015B	
LCS 680-203320/6	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-203320/7	Lab Control Sample Dup	Total/NA	Water	8015B	

Analysis Batch: 204206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67948-1	MW-1	Total/NA	Water	8015B	
680-67948-2	NAT-4	Total/NA	Water	8015B	
LCS 680-204206/6	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-204206/7	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-204206/8	Method Blank	Total/NA	Water	8015B	

Analysis Batch: 204805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-1	VFSP-MW-1	Total/NA	Water	8015B	
680-67898-2	MW-4	Total/NA	Water	8015B	
680-67898-2 MS	MW-4	Total/NA	Water	8015B	
680-67898-2 MSD	MW-4	Total/NA	Water	8015B	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8015B	
680-67898-4	MW-4U	Total/NA	Water	8015B	
680-67898-5	MW-9	Total/NA	Water	8015B	
680-67898-6	MW-5	Total/NA	Water	8015B	
680-67898-7	MW-5U	Total/NA	Water	8015B	
680-67898-8	FIELD BLANK	Total/NA	Water	8015B	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8015B	
LCS 680-204805/22	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-204805/23	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-204805/24	Method Blank	Total/NA	Water	8015B	

Analysis Batch: 205003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-10	MW-2	Total/NA	Water	8015B	
680-67898-11	TRIP BLANK 4	Total/NA	Water	8015B	
LCS 680-205003/4	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-205003/5	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-205003/6	Method Blank	Total/NA	Water	8015B	

GC VOA (Continued)

Analysis Batch: 205181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-11	TRIP BLANK 4	Total/NA	Water	8015B	
MB 680-205181/3	Method Blank	Total/NA	Water	8015B	
LCS 680-205181/4	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-205181/5	Lab Control Sample Dup	Total/NA	Water	8015B	

Metals

Prep Batch: 201997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201997/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-201997/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-67898-1	VFSP-MW-1	Total/NA	Water	3010A	
680-67898-2	MW-4	Total/NA	Water	3010A	
680-67898-2	MW-4	Total/NA	Water	3010A	
680-67898-2 MS	MW-4	Total/NA	Water	3010A	
680-67898-2 MS	MW-4	Total/NA	Water	3010A	
680-67898-2 MSD	MW-4	Total/NA	Water	3010A	
680-67898-2 MSD	MW-4	Total/NA	Water	3010A	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	3010A	
680-67898-4	MW-4U	Total/NA	Water	3010A	
680-67898-4	MW-4U	Total/NA	Water	3010A	
680-67898-5	MW-9	Total/NA	Water	3010A	
680-67898-6	MW-5	Total/NA	Water	3010A	
680-67898-6	MW-5	Total/NA	Water	3010A	
680-67898-7	MW-5U	Total/NA	Water	3010A	
680-67898-7	MW-5U	Total/NA	Water	3010A	
680-67898-8	FIELD BLANK	Total/NA	Water	3010A	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	3010A	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	3010A	
680-67898-10	MW-2	Total/NA	Water	3010A	
680-67898-10	MW-2	Total/NA	Water	3010A	
680-67948-1	MW-1	Total/NA	Water	3010A	
680-67948-2	NAT-4	Total/NA	Water	3010A	

Prep Batch: 201999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201999/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-201999/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-67898-U-2-A MS	680-67898-U-2-A MS	Dissolved	Water	3005A	
680-67898-U-2-B MSD	680-67898-U-2-B MSD	Dissolved	Water	3005A	
680-67948-2	NAT-4	Dissolved	Water	3005A	

Analysis Batch: 202609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201997/1-A	Method Blank	Total/NA	Water	6020	201997
LCS 680-201997/2-A	Lab Control Sample	Total/NA	Water	6020	201997
680-67898-1	VFSP-MW-1	Total/NA	Water	6020	201997
680-67898-2	MW-4	Total/NA	Water	6020	201997
680-67898-2 MS	MW-4	Total/NA	Water	6020	201997
680-67898-2 MSD	MW-4	Total/NA	Water	6020	201997
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	6020	201997
680-67898-4	MW-4U	Total/NA	Water	6020	201997

Metals (Continued)

Analysis Batch: 202609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-5	MW-9	Total/NA	Water	6020	201997
680-67898-6	MW-5	Total/NA	Water	6020	201997
680-67898-7	MW-5U	Total/NA	Water	6020	201997
680-67898-8	FIELD BLANK	Total/NA	Water	6020	201997
680-67898-9	FIELD DUPLICATE	Total/NA	Water	6020	201997
680-67898-10	MW-2	Total/NA	Water	6020	201997
680-67948-1	MW-1	Total/NA	Water	6020	201997
680-67948-2	NAT-4	Total/NA	Water	6020	201997
MB 680-201999/1-A	Method Blank	Total Recoverable	Water	6020	201999
LCS 680-201999/2-A	Lab Control Sample	Total Recoverable	Water	6020	201999
680-67948-2	NAT-4	Dissolved	Water	6020	201999
680-67898-U-2-A MS	680-67898-U-2-A MS	Dissolved	Water	6020	201999
680-67898-U-2-B MSD	680-67898-U-2-B MSD	Dissolved	Water	6020	201999
680-67898-2	MW-4	Total/NA	Water	6020	201997
680-67898-2 MS	MW-4	Total/NA	Water	6020	201997
680-67898-2 MSD	MW-4	Total/NA	Water	6020	201997
680-67898-4	MW-4U	Total/NA	Water	6020	201997
680-67898-6	MW-5	Total/NA	Water	6020	201997
680-67898-7	MW-5U	Total/NA	Water	6020	201997
680-67898-9	FIELD DUPLICATE	Total/NA	Water	6020	201997
680-67898-10	MW-2	Total/NA	Water	6020	201997

General Chemistry

Analysis Batch: 201554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201554/14	Method Blank	Total/NA	Water	353.2	
LCS 680-201554/15	Lab Control Sample	Total/NA	Water	353.2	
680-67898-2	MW-4	Total/NA	Water	353.2	
680-67898-2 MS	MW-4	Total/NA	Water	353.2	
680-67898-2 MSD	MW-4	Total/NA	Water	353.2	
680-67898-1	VFSP-MW-1	Total/NA	Water	353.2	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	353.2	
680-67898-4	MW-4U	Total/NA	Water	353.2	
680-67898-5	MW-9	Total/NA	Water	353.2	
680-67898-6	MW-5	Total/NA	Water	353.2	
680-67898-7	MW-5U	Total/NA	Water	353.2	
680-67898-8	FIELD BLANK	Total/NA	Water	353.2	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	353.2	
680-67898-10	MW-2	Total/NA	Water	353.2	

Analysis Batch: 201794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201794/14	Method Blank	Total/NA	Water	353.2	
LCS 680-201794/15	Lab Control Sample	Total/NA	Water	353.2	
680-67948-1	MW-1	Total/NA	Water	353.2	
680-67948-1 MS	MW-1	Total/NA	Water	353.2	
680-67948-1 MSD	MW-1	Total/NA	Water	353.2	
680-67948-2	NAT-4	Total/NA	Water	353.2	

General Chemistry (Continued)

Prep Batch: 203165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203165/1-A	Method Blank	Total/NA	Water	351.2	
LCS 680-203165/2-A	Lab Control Sample	Total/NA	Water	351.2	
680-67898-1	VFSP-MW-1	Total/NA	Water	351.2	
680-67898-2	MW-4	Total/NA	Water	351.2	
680-67898-2 MS	MW-4	Total/NA	Water	351.2	
680-67898-2 MSD	MW-4	Total/NA	Water	351.2	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	351.2	
680-67898-4	MW-4U	Total/NA	Water	351.2	
680-67898-5	MW-9	Total/NA	Water	351.2	
680-67898-6	MW-5	Total/NA	Water	351.2	
680-67898-7	MW-5U	Total/NA	Water	351.2	
680-67898-8	FIELD BLANK	Total/NA	Water	351.2	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	351.2	

Prep Batch: 203166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203166/1-A	Method Blank	Total/NA	Water	351.2	
LCS 680-203166/2-A	Lab Control Sample	Total/NA	Water	351.2	
680-67898-10	MW-2	Total/NA	Water	351.2	
680-67948-1	MW-1	Total/NA	Water	351.2	
680-67948-1 DU	MW-1	Total/NA	Water	351.2	
680-67948-2	NAT-4	Total/NA	Water	351.2	

Analysis Batch: 203380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-5	MW-9	Total/NA	Water	351.2	203165
680-67898-6	MW-5	Total/NA	Water	351.2	203165
680-67898-7	MW-5U	Total/NA	Water	351.2	203165
680-67898-8	FIELD BLANK	Total/NA	Water	351.2	203165
680-67898-9	FIELD DUPLICATE	Total/NA	Water	351.2	203165
MB 680-203166/1-A	Method Blank	Total/NA	Water	351.2	203166
680-67898-10	MW-2	Total/NA	Water	351.2	203166
680-67948-1	MW-1	Total/NA	Water	351.2	203166
680-67948-1 DU	MW-1	Total/NA	Water	351.2	203166
MB 680-203165/1-A	Method Blank	Total/NA	Water	351.2	203165
LCS 680-203165/2-A	Lab Control Sample	Total/NA	Water	351.2	203165
680-67898-1	VFSP-MW-1	Total/NA	Water	351.2	203165
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	351.2	203165
LCS 680-203166/2-A	Lab Control Sample	Total/NA	Water	351.2	203166
680-67898-2 MS	MW-4	Total/NA	Water	351.2	203165
680-67898-2 MSD	MW-4	Total/NA	Water	351.2	203165
680-67898-4	MW-4U	Total/NA	Water	351.2	203165
680-67898-2	MW-4	Total/NA	Water	351.2	203165
680-67948-2	NAT-4	Total/NA	Water	351.2	203166

Analysis Batch: 203407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203407/15	Method Blank	Total/NA	Water	9060	
LCS 680-203407/19	Lab Control Sample	Total/NA	Water	9060	
680-67898-1	VFSP-MW-1	Total/NA	Water	9060	
680-67898-2	MW-4	Total/NA	Water	9060	
680-67898-2 MS	MW-4	Total/NA	Water	9060	

General Chemistry (Continued)

Analysis Batch: 203407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-2 MSD	MW-4	Total/NA	Water	9060	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	9060	
680-67898-4	MW-4U	Total/NA	Water	9060	
680-67898-5	MW-9	Total/NA	Water	9060	
680-67898-6	MW-5	Total/NA	Water	9060	
680-67898-7	MW-5U	Total/NA	Water	9060	
680-67898-8	FIELD BLANK	Total/NA	Water	9060	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	9060	
680-67898-10	MW-2	Total/NA	Water	9060	
680-67948-1	MW-1	Total/NA	Water	9060	
680-67948-2	NAT-4	Total/NA	Water	9060	

Analysis Batch: 203698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-203698/2	Lab Control Sample	Total/NA	Water	325.2	
680-67898-1	VFSP-MW-1	Total/NA	Water	325.2	
MB 680-203698/4	Method Blank	Total/NA	Water	325.2	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	325.2	
680-67898-2	MW-4	Total/NA	Water	325.2	
680-67898-2 MS	MW-4	Total/NA	Water	325.2	
680-67898-2 MSD	MW-4	Total/NA	Water	325.2	
680-67898-4	MW-4U	Total/NA	Water	325.2	
680-67898-5	MW-9	Total/NA	Water	325.2	
680-67898-6	MW-5	Total/NA	Water	325.2	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	325.2	
680-67898-10	MW-2	Total/NA	Water	325.2	
680-67898-10 DU	MW-2	Total/NA	Water	325.2	
680-67898-8	FIELD BLANK	Total/NA	Water	325.2	
680-67948-1	MW-1	Total/NA	Water	325.2	
680-67898-7	MW-5U	Total/NA	Water	325.2	
680-67948-2	NAT-4	Total/NA	Water	325.2	

Analysis Batch: 203777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203777/1	Method Blank	Total/NA	Water	375.4	
LCS 680-203777/2	Lab Control Sample	Total/NA	Water	375.4	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	375.4	
680-67898-4	MW-4U	Total/NA	Water	375.4	
680-67898-8	FIELD BLANK	Total/NA	Water	375.4	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	375.4	
680-67898-1	VFSP-MW-1	Total/NA	Water	375.4	
680-67898-6	MW-5	Total/NA	Water	375.4	
680-67898-2	MW-4	Total/NA	Water	375.4	
680-67898-2 MS	MW-4	Total/NA	Water	375.4	
680-67898-2 MSD	MW-4	Total/NA	Water	375.4	
680-67898-7	MW-5U	Total/NA	Water	375.4	
680-67948-2	NAT-4	Total/NA	Water	375.4	
680-67898-5	MW-9	Total/NA	Water	375.4	
680-67898-10	MW-2	Total/NA	Water	375.4	
680-67948-1	MW-1	Total/NA	Water	375.4	

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: VFSP-MW-1

Lab Sample ID: 680-67898-1

Date Collected: 04/29/11 09:15

Matrix: Water

Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 02:40	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 00:23	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 01:30	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 07:00	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:21	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 18:24	KB	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203698	05/21/11 12:18	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	203777	05/23/11 12:11	JR	TAL SAV

Client Sample ID: MW-4

Lab Sample ID: 680-67898-2

Date Collected: 04/29/11 10:45

Matrix: Water

Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 03:03	RB	TAL SAV
Total/NA	Analysis	8260B	DL	50	5 mL	5 mL	202173	05/06/11 12:50	RB	TAL SAV
Total/NA	Prep	3520C			1047.1 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 14:27	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 00:46	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 01:53	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/11/11 07:07	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:06	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:18	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		2			203380	05/18/11 17:37	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 18:41	KB	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	203777	05/23/11 12:38	JR	TAL SAV

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Date Collected: 04/29/11 11:40

Matrix: Water

Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 14:28	RB	TAL SAV
Total/NA	Prep	3520C			500 mL	0.5 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 15:23	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 01:58	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 03:05	TC	TAL SAV

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Date Collected: 04/29/11 11:40

Matrix: Water

Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 07:28	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:22	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 19:37	KB	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203698	05/21/11 12:21	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203777	05/23/11 11:17	JR	TAL SAV

Client Sample ID: MW-4U

Lab Sample ID: 680-67898-4

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 03:26	RB	TAL SAV
Total/NA	Analysis	8260B	DL	100	5 mL	5 mL	202173	05/06/11 13:19	RB	TAL SAV
Total/NA	Prep	3520C			1047.6 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 14:55	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 02:22	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 03:29	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/11/11 07:35	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:27	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:24	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		5			203380	05/18/11 17:14	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 19:54	KB	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203777	05/23/11 11:17	JR	TAL SAV

Client Sample ID: MW-9

Lab Sample ID: 680-67898-5

Date Collected: 04/29/11 14:05

Matrix: Water

Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 03:49	RB	TAL SAV
Total/NA	Analysis	8260B	DL	50	5 mL	5 mL	202173	05/06/11 13:47	RB	TAL SAV
Total/NA	Prep	3520C			1055.9 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 15:50	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 02:46	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 03:53	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 07:42	BR	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-9

Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:25	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 20:50	KB	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		50	2 mL	2 mL	203777	05/23/11 12:42	JR	TAL SAV

Client Sample ID: MW-5

Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 04:12	RB	TAL SAV
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	202173	05/06/11 14:16	RB	TAL SAV
Total/NA	Prep	3520C			1053.5 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 16:18	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 03:10	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 04:17	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		4			202609	05/11/11 08:17	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:34	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:26	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 21:11	KB	TAL SAV
Total/NA	Analysis	325.2		20	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	203777	05/23/11 12:11	JR	TAL SAV

Client Sample ID: MW-5U

Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 04:35	RB	TAL SAV
Total/NA	Analysis	8260B	DL	20	5 mL	5 mL	202173	05/06/11 14:45	RB	TAL SAV
Total/NA	Prep	3520C			1033.1 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 16:46	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 03:34	DH	TAL SAV
Total/NA	Analysis	8015B		20	1.0	1 mL	202859	05/13/11 11:35	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 04:40	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		10			202609	05/11/11 08:24	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:41	BR	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5U

Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:30	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 21:31	KB	TAL SAV
Total/NA	Analysis	325.2		50	2 mL	2 mL	203698	05/21/11 13:03	JR	TAL SAV
Total/NA	Analysis	375.4		20	2 mL	2 mL	203777	05/23/11 12:40	JR	TAL SAV

Client Sample ID: FIELD BLANK

Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 15:25	RB	TAL SAV
Total/NA	Prep	3520C			1053.5 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 17:14	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 03:58	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 05:04	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:31	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:31	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 21:49	KB	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203698	05/21/11 12:54	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203777	05/23/11 11:19	JR	TAL SAV

Client Sample ID: FIELD DUPLICATE

Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 05:21	RB	TAL SAV
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	202173	05/06/11 15:13	RB	TAL SAV
Total/NA	Prep	3520C			1048.1 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 17:42	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 04:21	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 05:28	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/11/11 08:38	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:48	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:32	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV

Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Date Collected: 04/29/11 00:00
Matrix: Water
Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 22:08	KB	TAL SAV
Total/NA	Analysis	325.2		20	2 mL	2 mL	203698	05/21/11 12:49	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	203777	05/23/11 12:09	JR	TAL SAV

Client Sample ID: MW-2

Lab Sample ID: 680-67898-10

Date Collected: 04/29/11 14:30
Matrix: Water
Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 04:58	RB	TAL SAV
Total/NA	Analysis	8260B	DL	200	5 mL	5 mL	202173	05/06/11 17:37	RB	TAL SAV
Total/NA	Prep	3520C			1055.0 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 18:09	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 04:45	DH	TAL SAV
Total/NA	Analysis	8015B		2	1.0	1.0 mL	202859	05/13/11 11:59	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	205003	05/13/11 21:08	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/12/11 13:54	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:45	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:33	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203166	05/17/11 11:00	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 22:28	KB	TAL SAV
Total/NA	Analysis	325.2		20	2 mL	2 mL	203698	05/21/11 12:49	JR	TAL SAV
Total/NA	Analysis	375.4		20	2 mL	2 mL	203777	05/23/11 12:42	JR	TAL SAV

Client Sample ID: TRIP BLANK 4

Lab Sample ID: 680-67898-11

Date Collected: 04/29/11 00:00
Matrix: Water
Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 14:56	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	205003	05/13/11 21:32	TC	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	205181	06/07/11 16:31	DH	TAL SAV

Client Sample ID: MW-1

Lab Sample ID: 680-67948-1

Date Collected: 05/02/11 09:25
Matrix: Water
Date Received: 05/03/11 11:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202245	05/07/11 15:55	RB	TAL SAV
Total/NA	Analysis	8260B	DL	50	5 mL	5 mL	202323	05/08/11 17:04	RB	TAL SAV
Total/NA	Prep	3520C			1047.6 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-1

Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C LL		1			204675	06/02/11 18:37	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	203320	05/17/11 17:26	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204206	05/26/11 16:00	DH	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:52	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201794	05/03/11 18:30	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203166	05/17/11 11:00	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 22:46	KB	TAL SAV
Total/NA	Analysis	325.2		5	2 mL	2 mL	203698	05/21/11 12:55	JR	TAL SAV
Total/NA	Analysis	375.4		50	2 mL	2 mL	203777	05/23/11 12:42	JR	TAL SAV

Client Sample ID: NAT-4

Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202245	05/07/11 16:24	RB	TAL SAV
Total/NA	Analysis	8260B	DL	10	5 mL	5 mL	202323	05/08/11 17:32	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	203320	05/17/11 17:50	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204206	05/26/11 16:24	DH	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:59	BR	TAL SAV
Dissolved	Prep	3005A			50 mL	250 mL	201999	05/05/11 12:02	RA	TAL SAV
Dissolved	Analysis	6020		1			202609	05/11/11 12:42	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201794	05/03/11 18:35	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203166	05/17/11 11:00	DAM	TAL SAV
Total/NA	Analysis	351.2		2			203380	05/18/11 17:37	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 23:05	KB	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	203698	05/21/11 13:04	JR	TAL SAV
Total/NA	Analysis	375.4		2	2 mL	2 mL	203777	05/23/11 12:40	JR	TAL SAV

Client Sample ID: Trip Blank

Date Collected: 05/02/11 00:00
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202245	05/07/11 15:26	RB	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 040037

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Corrective Action

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Aqualon		
TAL (LAB) PROJECT MANAGER: Ligya Gulizia	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Erin Wright	CLIENT PHONE	CLIENT FAX
CLIENT NAME: GES	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PRESERVATIVE: APP IX SVOCs	PRESERVATIVE: APP IX VOCs	PRESERVATIVE: Alcohols	PRESERVATIVE: TAL metals	PRESERVATIVE: Chlorides	PRESERVATIVE: Sulfate	PRESERVATIVE: Nitrates	PRESERVATIVE: Nitrites	PRESERVATIVE: TKN	PRESERVATIVE: TOC	REMARKS
		NUMBER OF CONTAINERS SUBMITTED							X	X	X	X	X	X	X	X	X	
4/29/11	0915	VFSP-MW-1	G	X				X										
	1045	MW-4						X										
	1050	MS/MSD (MW-4)						X										
	1140	Equipment Blank						X										
	1235	MW-4U						X										
	1405	MW-9						X										
	1140	MW-5						X										
	1040	MW-5U						X										
		Field Blank						X										
		Field Duplicate						X										
	1430	MW-2						X										
		Trip Blank 4																

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Kate Hall	4/29/11	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	04/30/11	1050	YES ○ NO ○		680-67898	2.2°C, 1.2°C, 1.8°C, 2.6°C, 2.0°C, 1.8°C, 0.8°C, 1.4°C

TAL 8240-680 (1008)

Serial Number 040034

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Corrective Action

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Agvalon		
TAL (LAB) PROJECT MANAGER: Lidya Gvliziа	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Erin Wright	CLIENT PHONE	CLIENT FAX
CLIENT NAME: GES	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	App IX SVOCs	App IX VOCs	Alcohols	TAL metals	Chlorides	Sulfate	Nitrate	Nitrites	TKN	TOC	REMARKS
		PRESERVATIVE																
5/2/11	0955	NAT-4							X	X	X	X	X	X	X	X	X	Filtered sample
↓	0925	MW-1						X	X	X	X	X	X	X	X	X	X	collected for
↓	—	Trip Blank							X									NAT-4 metals
																		due to turbidity.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Kate Hall	5/2/11	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	5/3/11	1128	YES ○ NO ○		680-67948	0.5/0.8°c

TAL.8240-680 (1008)

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-67898-1
SDG Number: HAQ036

Login Number: 67898
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	8 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Temp range 0.8 - 2.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	1L amber from sample Equip blank rec'd broken.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-67898-1
SDG Number: HAQ036

Login Number: 67948
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5 and 0.8 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP	0	0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025	0	399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA	0	SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

ATTACHMENT I

2011 SITE-WIDE GROUNDWATER SAMPLING EVENT DATA VALIDATION REPORTS (ON CD)

Project: 2011 Annual Groundwater Monitoring Event – Ashland Aqualon Functional Ingredients, 1111 Hercules Road, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ034
Fraction: Organic
Matrix: Aqueous
Report Date: 7/13/2011

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. One trip blank was submitted with the samples in this SDG. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. Test America's, Savannah, Georgia performed all analyses with the exception of acrylamide, performed at the Tallahasee, Florida location.

The samples were analyzed for Hercules-Aqualon Appendix IX volatile organic compounds, Hercules-Aqualon Appendix IX semivolatile organic compounds, and alcohols. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008. Test America's, Savannah, Georgia performed all analyses with the exception of acrylamide, performed by at the Tallahasee, Florida location.

For the volatile and semivolatile fractions determined by Gas Chromatography/Mass Spectrometry, library searches were performed to "tentatively identify" chromatographic peaks whose characteristics did not match those of targeted compounds. Library searches were performed for up to ten volatile and twenty semivolatile extraneous peaks.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "Laboratory Data Validation Functional Guidelines for Validating Organic Analyses", USEPA 9/94. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the

non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

7/13/2011
Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

3.0 HOLDING TIMES

All criteria were met. No qualifiers were applied.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

The isobutyl alcohol reporting limits (RLs) for the samples have been rejected, and should be considered suspect. The average relative response factor for volatile organic compound isobutyl alcohol was below 0.05 for the associated initial calibration. The poor response indicates a lack of instrument sensitivity for this compound. RLs have been marked "R" to indicate that they are suspect.

4-Nitroquinoline-1-oxide RLs for the samples have been rejected, and should be considered suspect. The average relative response factor for semivolatile organic compound 4-nitroquinoline-1-oxide was below 0.05 for the associated initial calibration. The poor response indicates a lack of instrument sensitivity for this compound. RLs have been marked "R" to indicate that they are suspect.

Hexachloropropene RLs for samples MW-8D have been rejected, and should be considered suspect. The relative response factor for semivolatile organic compound hexachloropropene was below 0.05 for the continuing calibration. The poor response indicates a lack of instrument sensitivity for this compound. RLs have been marked "R" to indicate that they are suspect.

The RL for the volatile organic compound iodomethane for sample MW-8U should be considered a quantitative estimate. The continuing calibration precision criterion (the percent difference between initial and continuing calibration RRFs $\leq$ 20 percent) was exceeded for this compound. This indicates a lack of instrument stability. The nondetected result has been marked "UJ" to indicate that it is an estimate.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

The positive results reported for the compounds presented below are qualitatively invalid due to the presence of these compounds in associated field and laboratory method blanks. USEPA Region III protocol requires positive results for uncommon contaminants, such as acetophenone or 1, 4-dichlorobenzene, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. Placing "B" qualifiers next to these quantitative results for the samples has indicated this.

Compound	Samples With Qualified Results
Acetophenone	MW-8D
1,4-Dichlorobenzene	MW-8D, MW-8U, MW-6, MW-3

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

The laboratory did not select a site sample to perform matrix spike/ matrix spike duplicate analyses. Therefore, the associated sample data could not be evaluated based on these parameters. This should be noted when assessing the sample data.

9.0 *FIELD DUPLICATE RESULTS*

There were no field duplicate samples submitted with this SDG.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

The nondetected results for semivolatile organic compounds 2, 4-dichlorophenol, 2, 4-dimethylphenol, and 3 & 4-methylphenol quantitative estimates, and may be higher than reported. Low recoveries for these compounds were obtained for the associated laboratory control sample analysis. The low recovery indicates inefficiencies with the sample extraction/analytical processes. The 2, 4-dichlorophenol, 2, 4-dimethylphenol, and 3 & 4-methylphenol nondetected results have been marked with "UL" qualifiers to indicate that they are biased low quantitative estimates.

The laboratory did not spike the laboratory control sample with all of the Appendix IX compounds for the volatile and semivolatile analyses. Therefore, the sample data could not be evaluated based on this parameter.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 QUANTITATION/REPORTING LIMITS

The samples presented in the following table were analyzed at dilutions for volatile organic compounds. The dilution analyses were performed because of the suspected presence of high levels of target compounds and/or interferences. RLs are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated RLs should be noted when assessing the data for these samples.

Sample	Dilution Factor
MW-8U	20.0
MW-6	20.0

The samples presented below were re-analyzed at dilutions for volatile organic compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC/ MS instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
MW-8U	100	Diethyl ether
SDB-MW-3	20.0	Diethyl ether

As required by USEPA protocol, all volatile and semivolatile TICs have been reported with "J" qualifiers to indicate that they are quantitative estimates. EDQ has reported only those TIC results that have not been determined to be laboratory or field artifacts, and where possible has grouped TIC of similar classification.

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.
Semivolatile Organic Compounds	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.
Alcohols	Method 8015B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.

Table 1 Samples For Data Validation Review
Facility Lead Corrective Action Phase III Investigation - Hercules Aqualon, Hopewell, Virginia
Test America Sample Delivery Group HAQ034

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED								
				VOC	SVOC	ALC	MET	CHL	NO2	NO3	TKN	TOC
MW-8D	680-67790-7	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-8U	680-67790-8	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-6	680-67790-9	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-3	680-67790-10	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
SDB-MW-1	680-67790-11	4/26/2011	Groundwater	X		X	X	X	X	X	X	X
SDB-MW-2	680-67790-12	4/26/2011	Groundwater	X		X	X	X	X	X	X	X
SDB-MW-3	680-67790-13	4/26/2011	Groundwater	X		X	X	X	X	X	X	X
Trip Blank 1	680-67790-14	4/26/2011	Trip Blank	X								

Project: 2011 Annual Groundwater Monitoring Event – Ashland Aqualon Functional Ingredients, 1111 Hercules Road, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ034
Fraction: Inorganic
Matrix: Aqueous
Report Date: 7/13/2011

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008, and "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 10/2004. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

- X • Data Completeness
- X • Chain of Custody Documentation
- X • Holding Times
- X • Initial and Continuing Calibrations
- X • ICP Interference Check Sample Results
- X • Laboratory and Field Blank Analysis Results
- • Matrix Spike Recoveries and Reproducibility

	• Laboratory Duplicate Analysis Results
	• ICP Serial Dilution Results
	• Field Duplicate Analysis Results
X	• Laboratory Control Sample Results
	• GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	• Qualitative Identification
X	• Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

7/13/07
Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

All chain of custody documentation was complete.

3.0 HOLDING TIMES

All nitrate and nitrite results should be considered biased low quantitative estimates, and may be higher than reported. The laboratory analyzed these samples outside of the 48-hour holding time specified by 40 CFR. Because the samples were analyzed outside of the holding time biological or chemical degradation may have occurred. Positive results have been marked with "L" qualifiers to indicate that they are estimates. Reporting limits (RLs) are marked "UL".

4.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

5.0 ICP INTERFERENCE CHECK SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

The inorganic analytes presented in Table 2 were detected in associated laboratory method blanks at concentrations greater than their respective RL.

Positive results reported for zinc for samples MW-8D, MW-8U, MW-6, MW-3, SDB-MW-2, and SDB-MW-3 are qualitatively invalid due to their presence in the associated laboratory method blanks. USEPA Region III protocol requires positive results for inorganic contaminants, that are less than or equal to five times the blank contamination level, to be considered qualitatively invalid. Placing "B" qualifiers next to the quantitative results for this metal for the samples has indicated this.

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

The laboratory did not select a site sample to perform matrix spike/ matrix spike duplicate analyses. Therefore, the associated sample data could not be evaluated based on these parameters. This should be noted when assessing the sample data.

8.0 LABORATORY DUPLICATE RESULTS

The laboratory did not select a site sample to perform laboratory duplicate analyses. Therefore, the associated sample data could not be evaluated based on this parameter. This should be noted when assessing the sample data.

9.0 ICP SERIAL DILUTION RESULTS

The laboratory did not select a site sample to perform ICP serial dilution analyses. Therefore, the associated sample data could not be evaluated based on this parameter. This should be noted when assessing the sample data.

10.0 FIELD DUPLICATE RESULTS

There were no field duplicate samples submitted with this SDG.

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses performed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all inorganic analytes which were qualitatively identified at concentrations between their respective RLs and their method detection limits, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Appendix IX Metals	Method 6020, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008
Total Organic Carbon	Method 9060, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008
Chloride	Method 325.2"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrate-Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Total Kjeldahl Nitrogen	Method 351.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Sulfate	Method 375.4, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 1 Samples For Data Validation Review
Facility Lead Corrective Action Phase III Investigation - Hercules Aqualon, Hopewell, Virginia
Test America Sample Delivery Group HAQ034

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED								
				VOC	SVOC	ALC	MET	CHL	NO2	NO3	TKN	TOC
MW-8D	680-67790-7	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-8U	680-67790-8	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-6	680-67790-9	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-3	680-67790-10	4/26/2011	Groundwater	X	X	X	X	X	X	X	X	X
SDB-MW-1	680-67790-11	4/26/2011	Groundwater	X		X	X	X	X	X	X	X
SDB-MW-2	680-67790-12	4/26/2011	Groundwater	X		X	X	X	X	X	X	X
SDB-MW-3	680-67790-13	4/26/2011	Groundwater	X		X	X	X	X	X	X	X
Trip Blank 1	680-67790-14	4/26/2011	Trip Blank	X								

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
MB 680-201734/1-A Analysis Batch: 680-201938	Iron	59.5 J µg/L	MW-8D, MW-8U, MW-6, MW-3, SDB-MW-1, SDB-MW-2, SDB-MW-3
MB 680-201734/1-A Analysis Batch: 680-201977	Zinc	10.9 J µg/L	MW-8D, MW-8U, MW-6, MW-3, SDB-MW-1, SDB-MW-2, SDB-MW-3
CCB 680-202657/1	Chloride	0.258 J mg/L	SDB-MW-1, MW-8D
CCB 680-202657/10	Chloride	0.243 J mg/L	SDB-MW-1, MW-8D
CCB 680-202912/25	Total Organic Carbon	0.571 J mg/L	MW-8D, MW-8U, MW-6, MW-3, SDB-MW-1, SDB-MW-2, SDB-MW-3

Data Validation Qualifier Code Glossary

B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J - The positive result reported for this analyte is a quantitative estimate.

U - This compound/analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

UJ - This compound/analyte was not detected in the sample. The quantitation/detection should be considered estimated and may be inaccurate or imprecise.

R The result for this compound/analyte is unusable. The analyte may or may not be present.

K - The positive result reported for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.

L - The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.

UL - This compound/analyte was not detected in the sample. The actual quantitation/detection may be higher than reported.

X - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.

<u>Other Codes:</u>

ND - There were no positive results for this analytical fraction.

NA - This parameter is not applicable to this sample.

NR - This analysis parameter was not required for this sample.

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 21:39	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 21:39	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 21:39	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 21:39	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 21:39	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 21:39	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 21:39	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 21:39	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 21:39	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 21:39	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 21:39	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 21:39	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 21:39	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 21:39	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 21:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 21:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 21:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 21:39	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 21:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 21:39	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 21:39	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 21:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 21:39	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 21:39	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 21:39	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/02/11 21:39	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 21:39	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 21:39	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 21:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 21:39	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 21:39	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 21:39	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 21:39	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 21:39	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 21:39	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 21:39	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 21:39	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 21:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 21:39	1

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 21:39	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 21:39	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 21:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 21:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 21:39	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 21:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 21:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 21:39	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 21:39	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 21:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 21:39	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 21:39	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 21:39	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 21:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 21:39*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/02/11 21:39*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/02/11 21:39*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/02/11 21:39*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Acetophenone	**0.11**	~~JB~~ B	0.95	0.095	ug/L	MBL	05/03/11 14:47	05/09/11 14:27	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 14:27	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 14:27	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 14:27	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,4-Dichlorobenzene	0.15	~~U~~ B	0.95	0.095	ug/L	MBL	05/03/11 14:47	05/09/11 14:27	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dichlorophenol	0.95	U L	0.95	0.095	ug/L	BL	05/03/11 14:47	05/09/11 14:27	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 14:27	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 14:27	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BL	05/03/11 14:47	05/09/11 14:27	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 14:27	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/09/11 14:27	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 14:27	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Hexachlorophene	480	~~UJ~~ R	480	24	ug/L	CCL	05/03/11 14:47	05/09/11 14:27	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 14:27	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L	BL	05/03/11 14:47	05/09/11 14:27	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:27	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 14:27	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.0	ug/L	ICL	05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:27	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 14:27	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:27	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 14:27	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 14:27	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 14:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*29*	*J*	*ug/L*		*3.43*		*05/03/11 14:47*	*05/09/11 14:27*	*1*
Unknown	*1.8*	*J*	*ug/L*		*3.51*		*05/03/11 14:47*	*05/09/11 14:27*	*1*
Unknown	*1.5*	*J*	*ug/L*		*3.65*		*05/03/11 14:47*	*05/09/11 14:27*	*1*

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	27	J	ug/L		3.98		05/03/11 14:47	05/09/11 14:27	40 1
Unknown	5.5	J B	ug/L		5.03		05/03/11 14:47	05/09/11 14:27	76 1
Unknown	1.5	J B	ug/L		8.65		05/03/11 14:47	05/09/11 14:27	0 1
Unknown	1.5	J	ug/L		12.17		05/03/11 14:47	05/09/11 14:27	43 1
Octadecanoic acid, butyl ester	3.3	J N	ug/L		13.22	123-95-5	05/03/11 14:47	05/09/11 14:27	92 1
(Carbethoxyethylidine)triphenylphosphora	19	J N	ug/L		14.00	5717-37-3	05/03/11 14:47	05/09/11 14:27	91 1
Unknown	2.5	J	ug/L		14.05		05/03/11 14:47	05/09/11 14:27	0 1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		34 - 130	05/03/11 14:47	05/09/11 14:27	1
2-Fluorophenol	60		25 - 130	05/03/11 14:47	05/09/11 14:27	1
Nitrobenzene-d5	65		32 - 130	05/03/11 14:47	05/09/11 14:27	1
Phenol-d5	60		27 - 130	05/03/11 14:47	05/09/11 14:27	1
Terphenyl-d14	92		36 - 130	05/03/11 14:47	05/09/11 14:27	1
2,4,6-Tribromophenol	75		30 - 130	05/03/11 14:47	05/09/11 14:27	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 20:47	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 20:47	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 20:47	1
Methanol	1000	U	1000	830	ug/L			04/29/11 20:47	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**700**		100	50	ug/L		05/03/11 12:19	05/04/11 14:16	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:16	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:16	1
Barium	**77**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:16	1
Beryllium	**0.18**	J	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:16	1
Cadmium	**2.9**		0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:16	1
Calcium	**38000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:16	1
Chromium	**3.3**	J	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:16	1
Cobalt	**0.29**	J	0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:16	1
Copper	**5.3**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:16	1
Iron	**1100**	B	100	44	ug/L		05/03/11 12:19	05/04/11 14:16	1
Lead	**0.90**	J	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:16	1
Magnesium	**3300**		250	100	ug/L		05/03/11 12:19	05/04/11 17:14	1
Manganese	**250**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:16	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:14	1
Nickel	**3.2**	J	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:16	1
Potassium	**5300**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:16	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:16	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:16	1
Sodium	**14000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:16	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:16	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:16	1
Zinc	**23**	B	20	8.4	ug/L	BL	05/03/11 12:19	05/04/11 17:14	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-8D
Date Collected: 04/26/11 09:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600		1000	180	ug/L			05/11/11 15:04	1
Nitrogen, Kjeldahl	220		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	97	HL	50	10	ug/L	HT		04/28/11 16:53	1
Nitrite as N	50	UHL	50	10	ug/L	HT		04/28/11 16:53	1
Sulfate	4800	J	5000	2500	ug/L			05/11/11 12:05	1
Total Organic Carbon	610	J	1000	500	ug/L			05/13/11 11:06	1

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/03/11 23:46	20
Acetonitrile	800	U	800	200	ug/L			05/03/11 23:46	20
Acrolein	400	U	400	150	ug/L			05/03/11 23:46	20
Acrylonitrile	400	U	400	140	ug/L			05/03/11 23:46	20
Allyl chloride	20	U	20	4.0	ug/L			05/03/11 23:46	20
Benzene	20	U	20	5.0	ug/L			05/03/11 23:46	20
Benzyl chloride	20	U	20	20	ug/L			05/03/11 23:46	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
Bromoform	20	U	20	10	ug/L			05/03/11 23:46	20
Bromomethane	20	U	20	16	ug/L			05/03/11 23:46	20
2-Butanone	200	U	200	20	ug/L			05/03/11 23:46	20
Carbon disulfide	40	U	40	12	ug/L			05/03/11 23:46	20
Carbon tetrachloride	20	U	20	10	ug/L			05/03/11 23:46	20
Chlorobenzene	20	U	20	5.0	ug/L			05/03/11 23:46	20
Chloroethane	20	U	20	20	ug/L			05/03/11 23:46	20
Chloroform	20	U	20	2.8	ug/L			05/03/11 23:46	20
Chloromethane	20	U	20	6.6	ug/L			05/03/11 23:46	20
Chloroprene	20	U	20	6.0	ug/L			05/03/11 23:46	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/03/11 23:46	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/03/11 23:46	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/03/11 23:46	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/03/11 23:46	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
Dibromomethane	20	U	20	4.0	ug/L			05/03/11 23:46	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/03/11 23:46	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/03/11 23:46	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/03/11 23:46	20
Diethyl ether	~~3800~~	~~E~~	200	20	ug/L			05/03/11 23:46	20
Ethylbenzene	20	U	20	2.2	ug/L			05/03/11 23:46	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/03/11 23:46	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/03/11 23:46	20
2-Hexanone	200	U	200	20	ug/L			05/03/11 23:46	20
Iodomethane	100	U J	100	20	ug/L			05/03/11 23:46	20
Isobutyl alcohol	800	U R	800	220	ug/L			05/03/11 23:46	20
Methacrylonitrile	400	U	400	66	ug/L			05/03/11 23:46	20
Methylene Chloride	100	U	100	20	ug/L			05/03/11 23:46	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/03/11 23:46	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/03/11 23:46	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/03/11 23:46	20
n-Heptane	20	U	20	8.4	ug/L			05/03/11 23:46	20
Pentachloroethane	100	U	100	24	ug/L			05/03/11 23:46	20
Propionitrile	400	U	400	92	ug/L			05/03/11 23:46	20
Propylene oxide	4000	U	4000	4000	ug/L			05/03/11 23:46	20
Styrene	20	U	20	2.2	ug/L			05/03/11 23:46	20
t-Butanol	**1800**		100	52	ug/L			05/03/11 23:46	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/03/11 23:46	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/03/11 23:46	20

CCL
ICL

N

* Repeat from dilution

SMM 7/10/2011

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	20	U	20	3.0	ug/L			05/03/11 23:46	20
Toluene	20	U	20	6.6	ug/L			05/03/11 23:46	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/03/11 23:46	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/03/11 23:46	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/03/11 23:46	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/03/11 23:46	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/03/11 23:46	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/03/11 23:46	20
Trichloroethylene	20	U	20	2.6	ug/L			05/03/11 23:46	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/03/11 23:46	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/03/11 23:46	20
Vinyl acetate	40	U	40	5.6	ug/L			05/03/11 23:46	20
Vinyl chloride	20	U	20	3.6	ug/L			05/03/11 23:46	20
Xylenes, Total	40	U	40	4.0	ug/L			05/03/11 23:46	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 23:46*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/03/11 23:46*	*20*
Dibromofluoromethane	*99*		*70 - 130*		*05/03/11 23:46*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/03/11 23:46*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	500	ug/L			05/02/11 22:08	100
Acetonitrile	4000	U	4000	1000	ug/L			05/02/11 22:08	100
Acrolein	2000	U	2000	740	ug/L			05/02/11 22:08	100
Acrylonitrile	2000	U	2000	720	ug/L			05/02/11 22:08	100
Allyl chloride	100	U	100	20	ug/L			05/02/11 22:08	100
Benzene	100	U	100	25	ug/L			05/02/11 22:08	100
Benzyl chloride	100	U	100	100	ug/L			05/02/11 22:08	100
Bromodichloromethane	100	U	100	25	ug/L			05/02/11 22:08	100
Bromoform	100	U	100	50	ug/L			05/02/11 22:08	100
Bromomethane	100	U	100	80	ug/L			05/02/11 22:08	100
2-Butanone	1000	U	1000	100	ug/L			05/02/11 22:08	100
Carbon disulfide	200	U	200	60	ug/L			05/02/11 22:08	100
Carbon tetrachloride	100	U	100	50	ug/L			05/02/11 22:08	100
Chlorobenzene	100	U	100	25	ug/L			05/02/11 22:08	100
Chloroethane	100	U	100	100	ug/L			05/02/11 22:08	100
Chloroform	100	U	100	14	ug/L			05/02/11 22:08	100
Chloromethane	100	U	100	33	ug/L			05/02/11 22:08	100
Chloroprene	100	U	100	30	ug/L			05/02/11 22:08	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			05/02/11 22:08	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			05/02/11 22:08	100
Dibromochloromethane	100	U	100	10	ug/L			05/02/11 22:08	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			05/02/11 22:08	100
1,2-Dibromoethane	100	U	100	25	ug/L			05/02/11 22:08	100
Dibromomethane	100	U	100	20	ug/L			05/02/11 22:08	100
Dichlorodifluoromethane	100	U	100	25	ug/L			05/02/11 22:08	100
1,1-Dichloroethane	100	U	100	25	ug/L			05/02/11 22:08	100

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	100	U	100	10	ug/L			05/02/11 22:08	100
1,1-Dichloroethene	100	U	100	11	ug/L			05/02/11 22:08	100
1,2-Dichloropropane	100	U	100	13	ug/L			05/02/11 22:08	100
Diethyl ether	**1800**	**D**	1000	100	ug/L			05/02/11 22:08	100
Ethylbenzene	100	U	100	11	ug/L			05/02/11 22:08	100
Ethylene oxide	20000	U	20000	20000	ug/L			05/02/11 22:08	100
Ethyl methacrylate	100	U	100	25	ug/L			05/02/11 22:08	100
2-Hexanone	1000	U	1000	100	ug/L			05/02/11 22:08	100
Iodomethane	500	U	500	100	ug/L			05/02/11 22:08	100
Isobutyl alcohol	4000	U	4000	1100	ug/L			05/02/11 22:08	100
Methacrylonitrile	2000	U	2000	330	ug/L			05/02/11 22:08	100
Methylene Chloride	500	U	500	100	ug/L			05/02/11 22:08	100
Methyl methacrylate	100	U	100	48	ug/L			05/02/11 22:08	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	ug/L			05/02/11 22:08	100
Methyl tert-butyl ether	1000	U	1000	20	ug/L			05/02/11 22:08	100
n-Heptane	100	U	100	42	ug/L			05/02/11 22:08	100
Pentachloroethane	500	U	500	120	ug/L			05/02/11 22:08	100
Propionitrile	2000	U	2000	460	ug/L			05/02/11 22:08	100
Propylene oxide	20000	U	20000	20000	ug/L			05/02/11 22:08	100
Styrene	100	U	100	11	ug/L			05/02/11 22:08	100
t-Butanol	**500**	**D**	500	260	ug/L			05/02/11 22:08	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			05/02/11 22:08	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			05/02/11 22:08	100
Tetrachloroethene	100	U	100	15	ug/L			05/02/11 22:08	100
Toluene	100	U	100	33	ug/L			05/02/11 22:08	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			05/02/11 22:08	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			05/02/11 22:08	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			05/02/11 22:08	100
1,2,3-Trichlorobenzene	100	U	100	35	ug/L			05/02/11 22:08	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			05/02/11 22:08	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			05/02/11 22:08	100
Trichloroethylene	100	U	100	13	ug/L			05/02/11 22:08	100
Trichlorofluoromethane	100	U	100	25	ug/L			05/02/11 22:08	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			05/02/11 22:08	100
Vinyl acetate	200	U	200	28	ug/L			05/02/11 22:08	100
Vinyl chloride	100	U	100	18	ug/L			05/02/11 22:08	100
Xylenes, Total	200	U	200	20	ug/L			05/02/11 22:08	100

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 22:08*	*100*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/02/11 22:08*	*100*
Dibromofluoromethane	*100*		*70 - 130*		*05/02/11 22:08*	*100*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/02/11 22:08*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
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Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 14:54	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 14:54	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Butyl benzyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Chlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 14:54	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,4-Dichlorobenzene	0.12	~~LB~~ J	0.96	0.096	ug/L	MBL	05/03/11 14:47	05/09/11 14:54	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dichlorophenol	0.96	U L	0.96	0.096	ug/L	BSL	05/03/11 14:47	05/09/11 14:54	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 14:54	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 14:54	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 14:54	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4-Dinitrotoluene	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,4-Dioxane	8.6		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 14:54	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 14:54	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Hexachlorophene	480	U R	480	24	ug/L	CCL	05/03/11 14:47	05/09/11 14:54	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 14:54	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L	CCL	05/03/11 14:47	05/09/11 14:54	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 14:54	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 14:54	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.1	ug/L	ICL	05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:54	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pronamide	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 14:54	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 14:54	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 14:54	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 14:54	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 14:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*21*	~~JAJ~~ X	*ug/L* B		*3.98*		*05/03/11 14:47*	*05/09/11 14:54*	50 1
Unknown	*4.8*	J	*ug/L*		*5.71*		*05/03/11 14:47*	*05/09/11 14:54*	78 1
Unknown	*320*	J	*ug/L*		*6.13*		*05/03/11 14:47*	*05/09/11 14:54*	64 1
Unknown	*58*	J	*ug/L*		*7.94*		*05/03/11 14:47*	*05/09/11 14:54*	64 1
Unknown	*34*	J	*ug/L*		*9.55*		*05/03/11 14:47*	*05/09/11 14:54*	78 1
Unknown Organic Acid	*7.4*	J	*ug/L*		*10.11*		*05/03/11 14:47*	*05/09/11 14:54*	27 1
Unknown	*6.3*	J	*ug/L*		*10.18*		*05/03/11 14:47*	*05/09/11 14:54*	35 1
Unknown	*24*	J	*ug/L*		*10.99*		*05/03/11 14:47*	*05/09/11 14:54*	78 1
Unknown	*8.2*	J	*ug/L*		*12.27*		*05/03/11 14:47*	*05/09/11 14:54*	59 1
Acetic acid, (triphenylphosphoranylidene	*19*	~~JNT~~ B	*ug/L*		*14.01*	*2605-67-6*	*05/03/11 14:47*	*05/09/11 14:54*	91 1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
2-Fluorophenol	*50*		*25 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
Nitrobenzene-d5	*58*		*32 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
Phenol-d5	*28*		*27 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
Terphenyl-d14	*70*		*36 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*
2,4,6-Tribromophenol	*74*		*30 - 130*	*05/03/11 14:47*	*05/09/11 14:54*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 21:11	1
Ethanol	**1400**		1000	330	ug/L			04/29/11 21:11	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 21:11	1
Methanol	1000	U	1000	830	ug/L			04/29/11 21:11	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4700**		100	50	ug/L		05/03/11 12:19	05/04/11 14:20	1

Client Sample ID: MW-8U
Date Collected: 04/26/11 11:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:20	1
Arsenic	15		2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:20	1
Barium	340		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:20	1
Beryllium	0.23	J	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:20	1
Cadmium	0.28	J	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:20	1
Calcium	190000		500	170	ug/L		05/03/11 12:19	05/04/11 14:20	1
Chromium	29		5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:20	1
Cobalt	20		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:20	1
Copper	6.3		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:20	1
Iron	36000	B	100	44	ug/L		05/03/11 12:19	05/04/11 14:20	1
Lead	2.2		1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:20	1
Magnesium	45000		250	100	ug/L		05/03/11 12:19	05/04/11 17:21	1
Manganese	2400		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:20	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:21	1
Nickel	19		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:20	1
Potassium	24000		1000	330	ug/L		05/03/11 12:19	05/04/11 14:20	1
Selenium	1.5	J	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:20	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:20	1
Sodium	530000		1000	340	ug/L		05/03/11 12:19	05/05/11 11:48	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:20	1
Vanadium	14		10	3.2	ug/L		05/03/11 12:19	05/04/11 14:20	1
Zinc	27	B	20	8.4	ug/L	MB	05/03/11 12:19	05/04/11 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480000		5000	900	ug/L			05/11/11 15:35	5
Nitrogen, Kjeldahl	11000		1000	750	ug/L		05/11/11 19:55	05/12/11 16:27	5
Nitrate as N	18	HL	50	10	ug/L	HT		04/28/11 16:54	1
Nitrite as N	50	UL	50	10	ug/L	HT		04/28/11 16:54	1
Sulfate	340000		50000	25000	ug/L			05/11/11 12:40	10
Total Organic Carbon	11000		1000	500	ug/L			05/13/11 11:23	1

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/02/11 22:37	20
Acetonitrile	800	U	800	200	ug/L			05/02/11 22:37	20
Acrolein	400	U	400	150	ug/L			05/02/11 22:37	20
Acrylonitrile	400	U	400	140	ug/L			05/02/11 22:37	20
Allyl chloride	20	U	20	4.0	ug/L			05/02/11 22:37	20
Benzene	20	U	20	5.0	ug/L			05/02/11 22:37	20
Benzyl chloride	20	U	20	20	ug/L			05/02/11 22:37	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
Bromoform	20	U	20	10	ug/L			05/02/11 22:37	20
Bromomethane	20	U	20	16	ug/L			05/02/11 22:37	20
2-Butanone	200	U	200	20	ug/L			05/02/11 22:37	20
Carbon disulfide	40	U	40	12	ug/L			05/02/11 22:37	20
Carbon tetrachloride	20	U	20	10	ug/L			05/02/11 22:37	20
Chlorobenzene	20	U	20	5.0	ug/L			05/02/11 22:37	20
Chloroethane	20	U	20	20	ug/L			05/02/11 22:37	20
Chloroform	20	U	20	2.8	ug/L			05/02/11 22:37	20
Chloromethane	20	U	20	6.6	ug/L			05/02/11 22:37	20
Chloroprene	20	U	20	6.0	ug/L			05/02/11 22:37	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/02/11 22:37	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/02/11 22:37	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/02/11 22:37	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/02/11 22:37	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
Dibromomethane	20	U	20	4.0	ug/L			05/02/11 22:37	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/02/11 22:37	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/02/11 22:37	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/02/11 22:37	20
Diethyl ether	**1300**		200	20	ug/L			05/02/11 22:37	20
Ethylbenzene	20	U	20	2.2	ug/L			05/02/11 22:37	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/02/11 22:37	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/02/11 22:37	20
2-Hexanone	200	U	200	20	ug/L			05/02/11 22:37	20
Iodomethane	100	U	100	20	ug/L			05/02/11 22:37	20
Isobutyl alcohol	800	U	800	220	ug/L			05/02/11 22:37	20
Methacrylonitrile	400	U	400	66	ug/L			05/02/11 22:37	20
Methylene Chloride	100	U	100	20	ug/L			05/02/11 22:37	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/02/11 22:37	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/02/11 22:37	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/02/11 22:37	20
n-Heptane	20	U	20	8.4	ug/L			05/02/11 22:37	20
Pentachloroethane	100	U	100	24	ug/L			05/02/11 22:37	20
Propionitrile	400	U	400	92	ug/L			05/02/11 22:37	20
Propylene oxide	4000	U	4000	4000	ug/L			05/02/11 22:37	20
Styrene	20	U	20	2.2	ug/L			05/02/11 22:37	20
t-Butanol	**1600**		100	52	ug/L			05/02/11 22:37	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/02/11 22:37	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/02/11 22:37	20

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	20	U	20	3.0	ug/L			05/02/11 22:37	20
Toluene	20	U	20	6.6	ug/L			05/02/11 22:37	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/02/11 22:37	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/02/11 22:37	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/02/11 22:37	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/02/11 22:37	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/02/11 22:37	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/02/11 22:37	20
Trichloroethylene	20	U	20	2.6	ug/L			05/02/11 22:37	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/02/11 22:37	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/02/11 22:37	20
Vinyl acetate	40	U	40	5.6	ug/L			05/02/11 22:37	20
Vinyl chloride	20	U	20	3.6	ug/L			05/02/11 22:37	20
Xylenes, Total	40	U	40	4.0	ug/L			05/02/11 22:37	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 22:37*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/02/11 22:37*	*20*
Dibromofluoromethane	*99*		*70 - 130*		*05/02/11 22:37*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/02/11 22:37*	*20*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Acenaphthylene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Acetophenone	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Acetylaminofluorene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
alpha,alpha-Dimethyl phenethylamine	11	U	11	3.7	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Aminobiphenyl	5.5	U	5.5	0.34	ug/L		05/03/11 14:47	05/09/11 15:21	1
Aniline	2.2	U	2.2	1.1	ug/L		05/03/11 14:47	05/09/11 15:21	1
Anthracene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Aramite, Total	1.6	U	1.6	0.12	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[a]anthracene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[a]pyrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[b]fluoranthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzo[k]fluoranthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Benzyl alcohol	1.1	U	1.1	0.15	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,1'-Biphenyl	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	0.70	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Bromophenyl phenyl ether	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
Butyl benzyl phthalate	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Chloroaniline	2.2	U	2.2	0.40	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Chloro-3-methylphenol	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Chloronaphthalene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Chlorophenol	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Chlorophenyl phenyl ether	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.22	U	0.22	0.049	ug/L		05/03/11 14:47	05/09/11 15:21	1
Diallate	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dibenzofuran	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,2-Dichlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,3-Dichlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,4-Dichlorobenzene	0.13	JB	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
3,3'-Dichlorobenzidine	22	U	22	2.2	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dichlorophenol	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,6-Dichlorophenol	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Diethyl phthalate	1.1	U	1.1	0.12	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dimethoate	2.2	U	2.2	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
7,12-Dimethylbenz(a)anthracene	1.1	U	1.1	0.22	ug/L		05/03/11 14:47	05/09/11 15:21	1
3,3'-Dimethylbenzidine	22	U	22	5.5	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dimethylphenol	2.2	U	2.2	0.76	ug/L		05/03/11 14:47	05/09/11 15:21	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Di-n-butyl phthalate	1.1	U	1.1	0.43	ug/L		05/03/11 14:47	05/09/11 15:21	1
4,6-Dinitro-2-methylphenol	5.5	U	5.5	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dinitrophenol	11	U	11	1.2	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4-Dinitrotoluene	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,6-Dinitrotoluene	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
Di-n-octyl phthalate	1.1	U	1.1	0.19	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,4-Dioxane	2.7		2.2	0.34	ug/L		05/03/11 14:47	05/09/11 15:21	1
Disulfoton	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Ethyl methanesulfonate	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Ethyl Parathion	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Famphur	1.1	U	1.1	0.18	ug/L		05/03/11 14:47	05/09/11 15:21	1
Fluoranthene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Fluorene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorobutadiene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorocyclopentadiene	2.2	U	2.2	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachloroethane	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachlorophene	550	UR	550	27	ug/L		05/03/11 14:47	05/09/11 15:21	1
Hexachloropropene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Isophorone	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Isosafrole	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
m-Dinitrobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Methapyrilene	220	U	220	1.4	ug/L		05/03/11 14:47	05/09/11 15:21	1
3-Methylcholanthrene	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Methyl methanesulfonate	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Methylnaphthalene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Methyl parathion	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Methylphenol	2.2	U	2.2	0.81	ug/L		05/03/11 14:47	05/09/11 15:21	1
3 & 4 Methylphenol	2.2	U	2.2	0.73	ug/L		05/03/11 14:47	05/09/11 15:21	1
1-Naphthalenamine	5.5	U	5.5	1.4	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Naphthalenamine	5.5	U	5.5	1.4	ug/L		05/03/11 14:47	05/09/11 15:21	1
Naphthalene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Nitroaniline	1.1	U	1.1	0.18	ug/L		05/03/11 14:47	05/09/11 15:21	1
3-Nitroaniline	5.5	U	5.5	0.18	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Nitroaniline	5.5	U	5.5	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Nitrobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
5-Nitro-o-toluidine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Nitrophenol	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Nitrophenol	5.5	U	5.5	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
4-Nitroquinoline-1-oxide	2.2	U R	2.2	1.2	ug/L	ICL	05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodiethylamine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodimethylamine	1.1	U	1.1	0.27	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodi-n-butylamine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.41	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosomethylethylamine	2.2	U	2.2	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosomorpholine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosopiperidine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
N-Nitrosopyrrolidine	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
o,o',o''-Triethylphosphorothioate	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
o-Toluidine	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,2'-oxybis[1-chloropropane]	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
p-Dimethylamino azobenzene	5.5	U	5.5	0.16	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pentachlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pentachloronitrobenzene	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pentachlorophenol	5.5	U	5.5	0.44	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenacetin	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenanthrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenol	1.1	U	1.1	0.14	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phenyl ether	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Phorate	1.1	U	1.1	0.22	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-Picoline	2.2	U	2.2	0.16	ug/L		05/03/11 14:47	05/09/11 15:21	1
p-Phenylene diamine	220	U	220	18	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pronamide	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pyrene	0.22	U	0.22	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Pyridine	5.5	U	5.5	0.80	ug/L		05/03/11 14:47	05/09/11 15:21	1
Safrole, Total	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2-sec-Butyl-4,6-dinitrophenol	2.2	U	2.2	0.16	ug/L		05/03/11 14:47	05/09/11 15:21	1
Sulfotepp	1.1	U	1.1	0.15	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,2,4,5-Tetrachlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,3,4,6-Tetrachlorophenol	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
Thionazin	1.1	U	1.1	0.22	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,2,4-Trichlorobenzene	1.1	U	1.1	0.11	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4,5-Trichlorophenol	1.1	U	1.1	0.13	ug/L		05/03/11 14:47	05/09/11 15:21	1
2,4,6-Trichlorophenol	1.1	U	1.1	0.19	ug/L		05/03/11 14:47	05/09/11 15:21	1
1,3,5-Trinitrobenzene	1.1	U	1.1	0.55	ug/L		05/03/11 14:47	05/09/11 15:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*J*	*ug/L*		*5.76*		*05/03/11 14:47*	*05/09/11 15:21*	*1*
Unknown	*69*	*J*	*ug/L*		*6.13*		*05/03/11 14:47*	*05/09/11 15:21*	*1*
Unknown	*40*	*J*	*ug/L*		*7.95*		*05/03/11 14:47*	*05/09/11 15:21*	*1*

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	30	J	ug/L		9.56		05/03/11 14:47	05/09/11 15:21	1
Unknown Organic Acid	22	J	ug/L		10.13		05/03/11 14:47	05/09/11 15:21	1
Unknown	19	J	ug/L		10.20		05/03/11 14:47	05/09/11 15:21	1
Unknown	31	J	ug/L		10.99		05/03/11 14:47	05/09/11 15:21	1
Unknown	10	J	ug/L		11.17		05/03/11 14:47	05/09/11 15:21	1
Unknown	17	J	ug/L		12.27		05/03/11 14:47	05/09/11 15:21	1
(Carbethoxyethylidine)triphenylphosphora	16	J N	ug/L		14.02	5717-37-3	05/03/11 14:47	05/09/11 15:21	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		34 - 130	05/03/11 14:47	05/09/11 15:21	1
2-Fluorophenol	61		25 - 130	05/03/11 14:47	05/09/11 15:21	1
Nitrobenzene-d5	68		32 - 130	05/03/11 14:47	05/09/11 15:21	1
Phenol-d5	31		27 - 130	05/03/11 14:47	05/09/11 15:21	1
Terphenyl-d14	69		36 - 130	05/03/11 14:47	05/09/11 15:21	1
2,4,6-Tribromophenol	92		30 - 130	05/03/11 14:47	05/09/11 15:21	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 21:34	1
Ethanol	**1300**		1000	330	ug/L			04/29/11 21:34	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 21:34	1
Methanol	1000	U	1000	830	ug/L			04/29/11 21:34	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**820**		100	50	ug/L		05/03/11 12:19	05/04/11 14:24	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:24	1
Arsenic	**2.1**	J	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:24	1
Barium	**480**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:24	1
Beryllium	**0.34**	J	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:24	1
Cadmium	**0.44**	J	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:24	1
Calcium	**230000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:24	1
Chromium	**4.8**	J	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:24	1
Cobalt	**32**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:24	1
Copper	**5.7**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:24	1
Iron	**56000**	B	100	44	ug/L		05/03/11 12:19	05/04/11 14:24	1
Lead	**1.7**		1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:24	1
Magnesium	**42000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:28	1
Manganese	**5900**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:24	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:28	1
Nickel	**8.3**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:24	1
Potassium	**4600**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:24	1
Selenium	**1.3**	J	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:24	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:24	1
Sodium	**540000**		1000	340	ug/L		05/03/11 12:19	05/05/11 11:52	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:24	1
Vanadium	**5.4**	J	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:24	1
Zinc	**22**	B	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:28	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-6
Date Collected: 04/26/11 11:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**610000**		10000	1800	ug/L			05/11/11 16:01	10
Nitrogen, Kjeldahl	**4800**		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	**30**	~~HH~~ L	50	10	ug/L	HT		04/28/11 16:56	1
Nitrite as N	50	U ~~H~~ L	50	10	ug/L	HT		04/28/11 16:56	1
Sulfate	**140000**		25000	12000	ug/L			05/11/11 12:38	5
Total Organic Carbon	**22000**		1000	500	ug/L			05/13/11 11:41	1

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 14:32	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 14:32	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 14:32	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 14:32	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 14:32	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 14:32	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 14:32	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 14:32	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 14:32	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 14:32	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 14:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 14:32	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 14:32	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:32	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 14:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 14:32	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 14:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:32	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 14:32	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 14:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 14:32	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 14:32	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 14:32	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/03/11 14:32	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 14:32	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 14:32	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 14:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 14:32	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 14:32	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 14:32	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 14:32	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 14:32	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 14:32	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 14:32	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 14:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 14:32	1

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 14:32	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 14:32	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 14:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 14:32	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 14:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 14:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 14:32	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 14:32	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:32	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 14:32	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 14:32	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 14:32	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 14:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 14:32*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 14:32*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 14:32*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*05/03/11 14:32*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 15:48	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 15:48	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 15:48	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,4-Dichlorobenzene	0.15	JB	0.96	0.096	ug/L	MBL	05/03/11 14:47	05/09/11 15:48	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dichlorophenol	0.96	UL	0.96	0.096	ug/L	BSL	05/03/11 14:47	05/09/11 15:48	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 15:48	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 15:48	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dimethylphenol	1.9	UL	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 15:48	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 15:48	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,4-Dioxane	2.1		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 15:48	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 15:48	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Hexachlorophene	480	UR	480	24	ug/L	ICL	05/03/11 14:47	05/09/11 15:48	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 15:48	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 15:48	1
3 & 4 Methylphenol	1.9	UL	1.9	0.63	ug/L	BSL	05/03/11 14:47	05/09/11 15:48	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 15:48	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 15:48	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.1	ug/L	IQL	05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 15:48	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 15:48	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 15:48	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 15:48	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 15:48	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 15:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*11*	*TA J*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 15:48*	*1*
Unknown	*79*	*J*	*ug/L*		*6.11*		*05/03/11 14:47*	*05/09/11 15:48*	*1*
Unknown	*5.3*	*J*	*ug/L*		*7.49*		*05/03/11 14:47*	*05/09/11 15:48*	*1*

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8.7	J	ug/L		7.81		05/03/11 14:47	05/09/11 15:48	1
Unknown	45	J	ug/L		7.93		05/03/11 14:47	05/09/11 15:48	1
Unknown	41	J	ug/L		9.54		05/03/11 14:47	05/09/11 15:48	1
Unknown	7.7	J	ug/L		9.65		05/03/11 14:47	05/09/11 15:48	1
Unknown	18	J	ug/L		10.98		05/03/11 14:47	05/09/11 15:48	1
Oleic Acid	5.6	J N	ug/L		12.15	112-80-1	05/03/11 14:47	05/09/11 15:48	1
Unknown	20	J	ug/L		14.00		05/03/11 14:47	05/09/11 15:48	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		34 - 130	05/03/11 14:47	05/09/11 15:48	1
2-Fluorophenol	57		25 - 130	05/03/11 14:47	05/09/11 15:48	1
Nitrobenzene-d5	62		32 - 130	05/03/11 14:47	05/09/11 15:48	1
Phenol-d5	58		27 - 130	05/03/11 14:47	05/09/11 15:48	1
Terphenyl-d14	65		36 - 130	05/03/11 14:47	05/09/11 15:48	1
2,4,6-Tribromophenol	80		30 - 130	05/03/11 14:47	05/09/11 15:48	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 21:58	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 21:58	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 21:58	1
Methanol	1000	U	1000	830	ug/L			04/29/11 21:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**250**		100	50	ug/L		05/03/11 12:19	05/04/11 14:27	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:27	1
Arsenic	**2.4**	**J**	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:27	1
Barium	**460**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:27	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:27	1
Cadmium	**0.23**	**J**	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:27	1
Calcium	**72000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:27	1
Chromium	**3.4**	**J**	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:27	1
Cobalt	**1.0**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:27	1
Copper	**1.5**	**J**	5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:27	1
Iron	**19000**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:27	1
Lead	**0.54**	**J**	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:27	1
Magnesium	**9900**		250	100	ug/L		05/03/11 12:19	05/04/11 17:35	1
Manganese	**830**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:27	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:35	1
Nickel	**3.7**	**J**	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:27	1
Potassium	**9400**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:27	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:27	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:27	1
Sodium	**200000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:27	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:27	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:27	1
Zinc	**23**	**B**	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:35	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: MW-3
Date Collected: 04/26/11 15:55
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110000**		3000	540	ug/L			05/11/11 15:43	3
Nitrogen, Kjeldahl	**4900**		400	300	ug/L		05/11/11 19:55	05/12/11 16:27	2
Nitrate as N	**310**	HL	50	10	ug/L	HI #1		04/28/11 16:59	1
Nitrite as N	50	UL	50	10	ug/L			04/28/11 16:59	1
Sulfate	**37000**		10000	5000	ug/L			05/11/11 12:38	2
Total Organic Carbon	**9000**		1000	500	ug/L			05/13/11 12:06	1

Client Sample ID: SDB-MW-1
Date Collected: 04/26/11 14:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.9**	**J**	25	5.0	ug/L			05/02/11 23:34	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 23:34	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 23:34	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 23:34	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 23:34	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 23:34	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 23:34	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 23:34	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 23:34	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 23:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 23:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 23:34	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 23:34	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 23:34	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 23:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 23:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 23:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 23:34	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 23:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 23:34	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 23:34	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 23:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 23:34	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 23:34	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 23:34	1
Isobutyl alcohol	40	U R	40	11	ug/L	KL		05/02/11 23:34	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 23:34	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 23:34	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 23:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 23:34	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 23:34	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 23:34	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 23:34	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 23:34	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 23:34	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 23:34	1
t-Butanol	**3.1**	**J**	5.0	2.6	ug/L			05/02/11 23:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 23:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 23:34	1

Client Sample ID: SDB-MW-1
Date Collected: 04/26/11 14:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 23:34	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 23:34	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 23:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 23:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 23:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 23:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 23:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 23:34	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 23:34	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 23:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 23:34	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 23:34	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 23:34	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 23:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 23:34*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/02/11 23:34*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/02/11 23:34*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/02/11 23:34*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 22:22	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 22:22	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 22:22	1
Methanol	1000	U	1000	830	ug/L			04/29/11 22:22	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		100	50	ug/L		05/03/11 12:19	05/04/11 14:31	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:31	1
Arsenic	**7.7**		2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:31	1
Barium	**490**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:31	1
Beryllium	**0.66**		0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:31	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:31	1
Calcium	**82000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:31	1
Chromium	**160**		5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:31	1
Cobalt	**9.0**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:31	1
Copper	**37**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:31	1
Iron	**230000**	B	100	44	ug/L		05/03/11 12:19	05/04/11 14:31	1
Lead	**9.8**		1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:31	1
Magnesium	**22000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:42	1
Manganese	**2300**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:31	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:42	1
Nickel	**95**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:31	1
Potassium	**15000**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:31	1
Selenium	**2.5**		2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:31	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:31	1

Client Sample ID: SDB-MW-1
Date Collected: 04/26/11 14:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	77000		500	170	ug/L		05/03/11 12:19	05/04/11 14:31	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:31	1
Vanadium	27		10	3.2	ug/L		05/03/11 12:19	05/04/11 14:31	1
Zinc	78	B	20	8.4	ug/L		05/03/11 12:19	05/04/11 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45000		1000	180	ug/L			05/11/11 15:01	1
Nitrogen, Kjeldahl	14000		1000	750	ug/L		05/11/11 19:55	05/12/11 16:27	5
Nitrate as N	31	HL	50	10	ug/L	HT		04/28/11 17:00	1
Nitrite as N	10	HL	50	10	ug/L	HT		04/28/11 17:00	1
Sulfate	5000	U	5000	2500	ug/L			05/11/11 12:34	1
Total Organic Carbon	51000		1000	500	ug/L			05/13/11 12:25	1

Client Sample ID: SDB-MW-2
Date Collected: 04/26/11 15:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 00:03	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 00:03	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 00:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 00:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 00:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 00:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 00:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 00:03	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 00:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 00:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 00:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 00:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 00:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 00:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 00:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 00:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 00:03	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 00:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 00:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 00:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 00:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 00:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 00:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 00:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 00:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 00:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 00:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 00:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 00:03	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 00:03	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 00:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 00:03	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 00:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 00:03	1

Client Sample ID: SDB-MW-2
Date Collected: 04/26/11 15:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:03	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 00:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 00:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 00:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 00:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 00:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 00:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 00:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 00:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 00:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 00:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 00:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 00:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 00:03*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/03/11 00:03*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/03/11 00:03*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 00:03*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 22:46	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 22:46	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 22:46	1
Methanol	1000	U	1000	830	ug/L			04/29/11 22:46	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	50	ug/L		05/03/11 12:19	05/04/11 14:35	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:35	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:35	1
Barium	**15**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:35	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:35	1
Cadmium	**0.34**	**J**	0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:35	1
Calcium	**490000**		1000	340	ug/L		05/03/11 12:19	05/17/11 15:49	2
Chromium	**3.4**	**J**	5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:35	1
Cobalt	**5.8**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:35	1
Copper	**8.5**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:35	1
Iron	**810**	**B**	100	44	ug/L		05/03/11 12:19	05/04/11 14:35	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:35	1
Magnesium	**100000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:49	1
Manganese	**1800**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:35	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:49	1
Nickel	**29**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:35	1
Potassium	**1800**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:35	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:35	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:35	1

Client Sample ID: SDB-MW-2
Date Collected: 04/26/11 15:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**300000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:35	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:35	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:35	1
Zinc	**49**	**B**	20	8.4	ug/L	MB	05/03/11 12:19	05/04/11 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130000**		3000	540	ug/L			05/11/11 15:43	3
Nitrogen, Kjeldahl	**400**		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	50	U	50	10	ug/L	HT		04/28/11 17:02	1
Nitrite as N	50	U	50	10	ug/L	HT		04/28/11 17:02	1
Sulfate	**1200000**		250000	120000	ug/L			05/11/11 13:25	50
Total Organic Carbon	**6300**		1000	500	ug/L			05/13/11 12:44	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67790-1
SDG: HAQ034

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 00:32	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 00:32	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 00:32	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 00:32	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 00:32	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 00:32	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 00:32	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 00:32	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 00:32	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 00:32	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 00:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 00:32	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 00:32	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:32	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 00:32	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 00:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 00:32	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 00:32	1
Diethyl ether	~~500~~	~~E~~	10	1.0	ug/L			05/03/11 00:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 00:32	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 00:32	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 00:32	1
Isobutyl alcohol	40	U R	40	11	ug/L		ICL	05/03/11 00:32	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 00:32	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 00:32	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 00:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 00:32	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 00:32	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 00:32	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 00:32	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 00:32	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 00:32	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 00:32	1
t-Butanol	~~850~~	~~E~~	5.0	2.6	ug/L			05/03/11 00:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 00:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 00:32	1

* Repeat from dilution

TestAmerica Savannah

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 00:32	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 00:32	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 00:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 00:32	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 00:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 00:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 00:32	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 00:32	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 00:32	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 00:32	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 00:32	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 00:32	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 00:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 00:32*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/03/11 00:32*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 00:32*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 00:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/03/11 16:59	20
Acetonitrile	800	U	800	200	ug/L			05/03/11 16:59	20
Acrolein	400	U	400	150	ug/L			05/03/11 16:59	20
Acrylonitrile	400	U	400	140	ug/L			05/03/11 16:59	20
Allyl chloride	20	U	20	4.0	ug/L			05/03/11 16:59	20
Benzene	20	U	20	5.0	ug/L			05/03/11 16:59	20
Benzyl chloride	20	U	20	20	ug/L			05/03/11 16:59	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
Bromoform	20	U	20	10	ug/L			05/03/11 16:59	20
Bromomethane	20	U	20	16	ug/L			05/03/11 16:59	20
2-Butanone	200	U	200	20	ug/L			05/03/11 16:59	20
Carbon disulfide	40	U	40	12	ug/L			05/03/11 16:59	20
Carbon tetrachloride	20	U	20	10	ug/L			05/03/11 16:59	20
Chlorobenzene	20	U	20	5.0	ug/L			05/03/11 16:59	20
Chloroethane	20	U	20	20	ug/L			05/03/11 16:59	20
Chloroform	20	U	20	2.8	ug/L			05/03/11 16:59	20
Chloromethane	20	U	20	6.6	ug/L			05/03/11 16:59	20
Chloroprene	20	U	20	6.0	ug/L			05/03/11 16:59	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/03/11 16:59	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/03/11 16:59	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/03/11 16:59	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/03/11 16:59	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
Dibromomethane	20	U	20	4.0	ug/L			05/03/11 16:59	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/03/11 16:59	20

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/03/11 16:59	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/03/11 16:59	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/03/11 16:59	20
Diethyl ether	440	D	200	20	ug/L			05/03/11 16:59	20
Ethylbenzene	20	U	20	2.2	ug/L			05/03/11 16:59	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/03/11 16:59	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/03/11 16:59	20
2-Hexanone	200	U	200	20	ug/L			05/03/11 16:59	20
Iodomethane	100	U	100	20	ug/L			05/03/11 16:59	20
Isobutyl alcohol	800	U	800	220	ug/L			05/03/11 16:59	20
Methacrylonitrile	400	U	400	66	ug/L			05/03/11 16:59	20
Methylene Chloride	100	U	100	20	ug/L			05/03/11 16:59	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/03/11 16:59	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/03/11 16:59	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/03/11 16:59	20
n-Heptane	20	U	20	8.4	ug/L			05/03/11 16:59	20
Pentachloroethane	100	U	100	24	ug/L			05/03/11 16:59	20
Propionitrile	400	U	400	92	ug/L			05/03/11 16:59	20
Propylene oxide	4000	U	4000	4000	ug/L			05/03/11 16:59	20
Styrene	20	U	20	2.2	ug/L			05/03/11 16:59	20
t-Butanol	790	D	100	52	ug/L			05/03/11 16:59	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/03/11 16:59	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/03/11 16:59	20
Tetrachloroethene	20	U	20	3.0	ug/L			05/03/11 16:59	20
Toluene	20	U	20	6.6	ug/L			05/03/11 16:59	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/03/11 16:59	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/03/11 16:59	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/03/11 16:59	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/03/11 16:59	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/03/11 16:59	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/03/11 16:59	20
Trichloroethylene	20	U	20	2.6	ug/L			05/03/11 16:59	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/03/11 16:59	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/03/11 16:59	20
Vinyl acetate	40	U	40	5.6	ug/L			05/03/11 16:59	20
Vinyl chloride	20	U	20	3.6	ug/L			05/03/11 16:59	20
Xylenes, Total	40	U	40	4.0	ug/L			05/03/11 16:59	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 16:59*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 16:59*	*20*
Dibromofluoromethane	*96*		*70 - 130*		*05/03/11 16:59*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 16:59*	*20*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 23:10	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 23:10	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 23:10	1

Client Sample ID: SDB-MW-3
Date Collected: 04/26/11 16:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-13
Matrix: Water

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	1000	U	1000	830	ug/L			04/29/11 23:10	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1300**		100	50	ug/L		05/03/11 12:19	05/04/11 14:39	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:39	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 12:19	05/04/11 14:39	1
Barium	**22**		5.0	1.4	ug/L		05/03/11 12:19	05/04/11 14:39	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 12:19	05/04/11 14:39	1
Cadmium	**0.70**		0.50	0.13	ug/L		05/03/11 12:19	05/04/11 14:39	1
Calcium	**380000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:39	1
Chromium	**19**		5.0	2.5	ug/L		05/03/11 12:19	05/04/11 14:39	1
Cobalt	**8.4**		0.50	0.12	ug/L		05/03/11 12:19	05/04/11 14:39	1
Copper	**15**		5.0	1.1	ug/L		05/03/11 12:19	05/04/11 14:39	1
Iron	**1700**	B	100	44	ug/L		05/03/11 12:19	05/04/11 14:39	1
Lead	**0.91**	J	1.5	0.50	ug/L		05/03/11 12:19	05/04/11 14:39	1
Magnesium	**100000**		250	100	ug/L		05/03/11 12:19	05/04/11 17:56	1
Manganese	**1500**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:39	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 12:19	05/04/11 17:56	1
Nickel	**46**		5.0	2.0	ug/L		05/03/11 12:19	05/04/11 14:39	1
Potassium	**2300**		1000	330	ug/L		05/03/11 12:19	05/04/11 14:39	1
Selenium	**12**		2.5	1.1	ug/L		05/03/11 12:19	05/04/11 14:39	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 12:19	05/04/11 14:39	1
Sodium	**300000**		500	170	ug/L		05/03/11 12:19	05/04/11 14:39	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 12:19	05/04/11 14:39	1
Vanadium	**4.0**	J	10	3.2	ug/L		05/03/11 12:19	05/04/11 14:39	1
Zinc	**29**	B	20	8.4	ug/L	MRL	05/03/11 12:19	05/04/11 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280000**		5000	900	ug/L			05/11/11 15:35	5
Nitrogen, Kjeldahl	**390**		200	150	ug/L		05/11/11 19:55	05/12/11 15:39	1
Nitrate as N	**290**	HL	50	10	ug/L	HT		04/28/11 17:03	1
Nitrite as N	50	U HL	50	10	ug/L	HT		04/28/11 17:03	1
Sulfate	**1100000**		250000	120000	ug/L			05/11/11 13:25	50
Total Organic Carbon	**5600**		1000	500	ug/L			05/13/11 13:01	1

Client Sample ID: Trip Blank 1
Date Collected: 04/26/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 19:44	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 19:44	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 19:44	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 19:44	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 19:44	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 19:44	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 19:44	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 19:44	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 19:44	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 19:44	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 19:44	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 19:44	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 19:44	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:44	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 19:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 19:44	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 19:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 19:44	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 19:44	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 19:44	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 19:44	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 19:44	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 19:44	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/02/11 19:44	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 19:44	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 19:44	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 19:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 19:44	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 19:44	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 19:44	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 19:44	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 19:44	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 19:44	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 19:44	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 19:44	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 19:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 19:44	1

Client Sample ID: Trip Blank 1
Date Collected: 04/26/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67790-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 19:44	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 19:44	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 19:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 19:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 19:44	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 19:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 19:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 19:44	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 19:44	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 19:44	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 19:44	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 19:44	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 19:44	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 19:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/11 19:44*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/02/11 19:44*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/02/11 19:44*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/02/11 19:44*	*1*

Project: 2011 Annual Groundwater Monitoring Event – Ashland Aqualon Functional Ingredients, 1111 Hercules Road, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ035
Fraction: Organic
Matrix: Aqueous
Report Date: 7/18/2011

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. One equipment blank, one field blank, two trip blanks, one field duplicate, and one matrix spike matrix spike duplicate were submitted with the samples in this SDG. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. Test America's, Savannah, Georgia performed all analyses with the exception of acrylamide, performed at the Tallahasee, Florida location.

The samples were analyzed for Hercules-Aqualon Appendix IX volatile organic compounds, Hercules-Aqualon Appendix IX semivolatile organic compounds, and alcohols. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008. Test America's, Savannah, Georgia performed all analyses with the exception of acrylamide, performed by at the Tallahasee, Florida location.

For the volatile and semivolatile fractions determined by Gas Chromatography/Mass Spectrometry, library searches were performed to "tentatively identify" chromatographic peaks whose characteristics did not match those of targeted compounds. Library searches were performed for up to ten volatile and twenty semivolatile extraneous peaks.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "Laboratory Data Validation Functional Guidelines for Validating Organic Analyses", USEPA 9/94. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the

non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

7/18/2011

Date

1.0 *DATA COMPLETENESS*

The average relative response factors were not presented on the summary form for the initial calibration performed on 5/13/2011, or on the summary for the continuing calibration performed on 5/18/2011 @ 1127. The laboratory was contacted and provided corrected summary forms.

The raw data for the allyl alcohol analysis performed on 5/12/2011 @ 0042 is missing from the data package for sample MW-7U. The laboratory was contacted and provided this missing information.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

Sample Field Blank was extracted for semivolatile organic compounds 1 day outside of the holding time of 7 days, as stated in the current 40 CFR Part 136. Because the sample was extracted outside of holding time, biological or chemical degradation may have occurred. Positive results for semivolatile organic compounds for the sample have been marked with "J" qualifiers to indicate that they are quantitative estimates. Reporting limits (RLs) have been marked "UJ".

Samples Field Dup and NAT-2 were analyzed for alcohol compounds 1 day outside of the holding time of 14 days, as stated in the current 40 CFR Part 136. Because the samples were analyzed outside of holding time, biological or chemical degradation may have occurred. Positive results for alcohol compounds for the samples have been marked with "L" qualifiers to indicate that they are quantitative estimates. RLs have been marked "UL".

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

The isobutyl alcohol reporting limits (RLs) for the samples have been rejected, and should be considered suspect. The average relative response factor for volatile organic compound isobutyl alcohol was below 0.05 for the associated initial calibration. The poor response indicates a lack of instrument sensitivity for this compound. RLs have been marked "R" to indicate that they are suspect.

4-Nitroquinoline-1-oxide RLs for the samples have been rejected, and should be considered suspect. The average relative response factor for semivolatile organic compound 4-nitroquinoline-1-oxide was below 0.05 for the associated initial calibration. The poor response indicates a lack of instrument sensitivity for this compound. RLs have been marked "R" to indicate that they are suspect.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The positive results reported for the compounds presented below are qualitatively invalid due to the presence of these compounds in associated field and laboratory method blanks. USEPA Region III protocol requires positive results for uncommon contaminants, such as acetophenone or 1, 4-dichlorobenzene, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. Placing "B" qualifiers next to these quantitative results for the samples has indicated this.

Compound	Samples With Qualified Results
Acetophenone	LF-5
1,4-Dichlorobenzene	LF-5, LF-4, LF-1, LF-3, WWL-3L, WWL-3U, Field Dup, NAT-3, NAT-2, MW-10, MW-7U, MW-7L

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

Duplicate samples NAT-3 and Field Dup were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for these duplicate samples are presented in Tables 2. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty percent for volatile detected compounds (and 25 percent for extractable compounds) to evaluate field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

The nondetected results for semivolatile organic 2, 4-dichlorophenol, 2, 4-dimethylphenol, hexachloropropene, and 3&4-methyl phenol are quantitative estimates, and may be higher than reported. Low recoveries for these compounds were obtained for the associated laboratory control sample analysis. The low recovery indicates inefficiencies with the sample extraction/analytical processes. The 2, 4-dichlorophenol, 2, 4-dimethylphenol, hexachloropropene, and 3&4-methyl phenol nondetected results have been marked with "UL" qualifiers to indicate that they are biased low quantitative estimates.

The laboratory did not spike the laboratory control sample with all of the Appendix IX compounds for the volatile and semivolatile analyses. Therefore, the sample data could not be evaluated based on this parameter.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

The samples presented in the following table were analyzed at dilutions for volatile organic compounds. The dilution analyses were performed because of the suspected presence of high levels of target compounds and/or interferences. RLs are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated RLs should be noted when assessing the data for these samples.

Sample	Dilution Factor
WWL-3L	100
WWL-3U	10.0

The samples presented below were re-analyzed at dilutions for volatile organic compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC/ MS instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
LF-3	20.0	tert-Butyl alcohol
RAB-MW2	5.0	tert-Butyl alcohol
Field Dup	4000	tert-Butyl alcohol
NAT-3	4000	tert-Butyl alcohol
NAT-2	500	tert-Butyl alcohol
RAB-MW3	5.0	tert-Butyl alcohol

As required by USEPA protocol, all volatile and semivolatile TICs have been reported with "J" qualifiers to indicate that they are quantitative estimates. EDQ has reported only those TIC results that have not been determined to be laboratory or field artifacts, and where possible has grouped TIC of similar classification.

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.
Semivolatile Organic Compounds	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.
Alcohols	Method 8015B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.

Table 1 Samples For Data Validation Review
2011 Annual Groundwater Monitoring Event - Ashland Aqualon Functional Ingredients
1111 Hercules Road, Hopewell, Virginia
Test America Sample Delivery Group HAQ035

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED								
				VOC	SVOC	ALC	MET	CHL	NO2	NO3	TKN	TOC
LF-5	680-67794-1	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
LF-4	680-67794-2	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
LF-1	680-67794-3	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
LF-2	680-67794-4	4/27/2011	Groundwater	X		X	X	X	X	X	X	X
LF-3	680-67794-5	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
WWL-2	680-67794-6	4/27/2011	Groundwater	X		X	X	X	X	X	X	X
WWL-1	680-67794-7	4/27/2011	Groundwater	X		X	X	X	X	X	X	X
Trip Blank 2	680-67794-8	4/27/2011	Trip Blank	X								
Equipment Blank	680-67794-9	4/27/2011	Equipment Blank	X	X	X	X	X	X	X	X	X
WWL-3L	680-67794-10	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
WWL-3U	680-67794-11	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
RAB-MW2	680-67837-1	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
RAB-MW4	680-67837-2	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
Field Dup	680-67837-3	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-3	680-67837-4	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-2	680-67837-5	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-1	680-67837-6	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
RAB-MW3	680-67837-7	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
MW-10	680-67837-8	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
Field Blank	680-67837-9	4/28/2011	Field Blank	X	X	X	X	X	X	X	X	X
MW-7U	680-67837-10	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-7L	680-67837-11	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
Trip Blank 3	680-67837-12	4/28/2011	Trip Blank	X								

Table 2 Field Duplicate Sample Results for Organic Analyses
Groundwater Duplicate Samples NAT-3 and Field Dup

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)		RPD	ACTION
	NAT-3		Field Dup			
Acetone	34		30		13	
cis-1,2-Dichloroethene	ND		0.20	J	NC	
t-Butanol	83000		94000		12	
Tetrachloroethene	0.30	J	1.3		125	
1,4-Dioxane	6.8		7.6		11	

Project: 2011 Annual Groundwater Monitoring Event – Ashland Aqualon Functional Ingredients, 1111 Hercules Road, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ035
Fraction: Inorganic
Matrix: Aqueous
Report Date: 7/18/2011

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. One equipment blank, one field blank, one field duplicate, and one matrix spike matrix spike duplicate were submitted with the samples in this SDG. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008, and "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

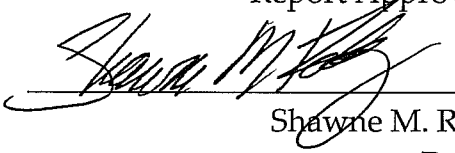
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 10/2004. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

1/19/2011

Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

All chain of custody documentation was complete.

3.0 HOLDING TIMES

All criteria were met. No qualifiers were applied.

4.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

5.0 ICP INTERFERENCE CHECK SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

All criteria were met. No qualifiers were applied.

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

Positive cobalt results reported for samples RAB-MW2, RAB-MW4, Field Dup, NAT-3, NAT-2, NAT-1, RAB-MW3, MW-10, MW-7U, and MW-7L are quantitative estimates. The ICP serial precision criterion was exceeded for this analyte. The lack of precision may be due to interferences in samples of similar matrix. The positive cobalt results have been marked with "J" qualifiers to indicate that they are quantitative estimates.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples NAT-3 and Field Dup were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 25 percent for values greater than five times the reporting limit (RL) (or $\pm$ the RL for results less than five times the RL.

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses performed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all inorganic analytes which were qualitatively identified at concentrations between their respective RLs and their method detection limits, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Analysis	Reference
Appendix IX Metals	Method 6020, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008
Total Organic Carbon	Method 9060, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008
Chloride	Method 325.2"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrate-Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Total Kjeldahl Nitrogen	Method 351.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Sulfate	Method 375.4, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 1 Samples For Data Validation Review
2011 Annual Groundwater Monitoring Event - Ashland Aqualon Functional Ingredients
1111 Hercules Road, Hopewell, Virginia
Test America Sample Delivery Group HAQ035

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED								
				VOC	SVOC	ALC	MET	CHL	NO2	NO3	TKN	TOC
LF-5	680-67794-1	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
LF-4	680-67794-2	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
LF-1	680-67794-3	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
LF-2	680-67794-4	4/27/2011	Groundwater	X		X	X	X	X	X	X	X
LF-3	680-67794-5	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
WWL-2	680-67794-6	4/27/2011	Groundwater	X		X	X	X	X	X	X	X
WWL-1	680-67794-7	4/27/2011	Groundwater	X		X	X	X	X	X	X	X
Trip Blank 2	680-67794-8	4/27/2011	Trip Blank	X								
Equipment Blank	680-67794-9	4/27/2011	Equipment Blank	X	X	X	X	X	X	X	X	X
WWL-3L	680-67794-10	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
WWL-3U	680-67794-11	4/27/2011	Groundwater	X	X	X	X	X	X	X	X	X
RAB-MW2	680-67837-1	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
RAB-MW4	680-67837-2	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
Field Dup	680-67837-3	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-3	680-67837-4	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-2	680-67837-5	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-1	680-67837-6	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
RAB-MW3	680-67837-7	4/28/2011	Groundwater	X		X	X	X	X	X	X	X
MW-10	680-67837-8	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
Field Blank	680-67837-9	4/28/2011	Field Blank	X	X	X	X	X	X	X	X	X
MW-7U	680-67837-10	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-7L	680-67837-11	4/28/2011	Groundwater	X	X	X	X	X	X	X	X	X
Trip Blank 3	680-67837-12	4/28/2011	Trip Blank	X								

Table 2 Field Duplicate Sample Results for Inorganic Analyses
Groundwater Duplicate Samples NAT-3 and Field Dup

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)		RPD	ACTION
	NAT-3		Field Dup			
Aluminum	340		100		109	Less than 5 X RL
Arsenic	6.1		5.7		7	
Barium	94		81		15	
Cadmium	0.36	J	ND		NC	
Calcium	40000		38000		5	
Chromium	2.5	J	ND		NC	
Cobalt	16	J	14	J	13	
Copper	1.2	J	ND		NC	
Iron	3200		2800		13	
Magnesium	18000		17000		6	
Manganese	1800		1700		6	
Nickel	22		19		15	
Potassium	1300		1100		17	
Vanadium	5.0	J	4.0	J	22	
Zinc	20		ND		NC	
Sodium	1200000		1100000		9	
Chloride	250000		250000		0	
Nitrogen, Kjeldahl	2900		2400		19	
Nitrate as N	400		4300		166	*
Total Organic Carbon	73000		73000		0	

Data Validation Qualifier Code Glossary

B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J - The positive result reported for this analyte is a quantitative estimate.

U - This compound/analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

UJ - This compound/analyte was not detected in the sample. The quantitation/detection should be considered estimated and may be inaccurate or imprecise.

R The result for this compound/analyte is unusable. The analyte may or may not be present.

K - The positive result reported for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.

L - The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.

UL - This compound/analyte was not detected in the sample. The actual quantitation/detection may be higher than reported.

X - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.

<u>Other Codes:</u>

ND - There were no positive results for this analytical fraction.

NA - This parameter is not applicable to this sample.

NR - This analysis parameter was not required for this sample.

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 01:01	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 01:01	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 01:01	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 01:01	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 01:01	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 01:01	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 01:01	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 01:01	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 01:01	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 01:01	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 01:01	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 01:01	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 01:01	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:01	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 01:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 01:01	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 01:01	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 01:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
1,1-Dichloroethane	**0.30**	**J**	1.0	0.25	ug/L			05/03/11 01:01	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:01	1
1,1-Dichloroethene	**0.12**	**J**	1.0	0.11	ug/L			05/03/11 01:01	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 01:01	1
Diethyl ether	**35**		10	1.0	ug/L			05/03/11 01:01	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 01:01	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 01:01	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 01:01	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 01:01	1
Isobutyl alcohol	40	U R	40	11	ug/L		ICL	05/03/11 01:01	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 01:01	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 01:01	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 01:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 01:01	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 01:01	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 01:01	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 01:01	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 01:01	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 01:01	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 01:01	1
t-Butanol	**12**		5.0	2.6	ug/L			05/03/11 01:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 01:01	1

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:01	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 01:01	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 01:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 01:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 01:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 01:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 01:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 01:01	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 01:01	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 01:01	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 01:01	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 01:01	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 01:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 01:01*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/03/11 01:01*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/03/11 01:01*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 01:01*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Acetophenone	**0.25**	~~JB~~ B	1.0	0.10	ug/L	MBL	05/03/11 14:47	05/09/11 16:43	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/03/11 14:47	05/09/11 16:43	1
Aniline	2.0	U	2.0	0.97	ug/L		05/03/11 14:47	05/09/11 16:43	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Bis(2-ethylhexyl) phthalate	**1.2**	**J**	2.0	0.64	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
Butyl benzyl phthalate	**0.17**	**J**	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.20	U	0.20	0.045	ug/L		05/03/11 14:47	05/09/11 16:43	1
Diallate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,4-Dichlorobenzene	**0.28**	~~JB~~ B	1.0	0.10	ug/L	MBL	05/03/11 14:47	05/09/11 16:43	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dichlorophenol	1.0	UL	1.0	0.10	ug/L	BSL	05/03/11 14:47	05/09/11 16:43	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/03/11 14:47	05/09/11 16:43	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/09/11 16:43	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dimethylphenol	2.0	UL	2.0	0.69	ug/L	BSL	05/03/11 14:47	05/09/11 16:43	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/03/11 14:47	05/09/11 16:43	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,4-Dioxane	**0.83**	J	2.0	0.31	ug/L		05/03/11 14:47	05/09/11 16:43	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Famphur	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/09/11 16:43	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Hexachlorophene	500	UL	500	25	ug/L	BSL	05/03/11 14:47	05/09/11 16:43	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Methapyrilene	200	U	200	1.3	ug/L		05/03/11 14:47	05/09/11 16:43	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/03/11 14:47	05/09/11 16:43	1
3 & 4 Methylphenol	2.0	UL	2.0	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 16:43	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/03/11 14:47	05/09/11 16:43	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/03/11 14:47	05/09/11 16:43	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
4-Nitroquinoline-1-oxide	2.0	~~U~~ R	2.0	1.1	ug/L	ICL	05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
o,o',o''-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenol	1.0	U	1.0	0.13	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Phorate	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/09/11 16:43	1
p-Phenylene diamine	200	U	200	16	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/03/11 14:47	05/09/11 16:43	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/03/11 14:47	05/09/11 16:43	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/03/11 14:47	05/09/11 16:43	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/03/11 14:47	05/09/11 16:43	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/03/11 14:47	05/09/11 16:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
~~*Unknown Aldol Condensate*~~	~~*19*~~	~~*T A J*~~	~~*ug/L*~~		A *3.98*		*05/03/11 14:47*	*05/09/11 16:43*	56 *1*
Unknown	*1.7*	*TJ*	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 16:43*	47 *1*
Unknown	*9.8*	*TJ*	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 16:43*	76 *1*

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Q	Dil Fac
Unknown Organic Acid	4.6	TJ B	ug/L		8.67		05/03/11 14:47	05/09/11 16:43	40	1
Oleic Acid	7.0	TJN B	ug/L		12.15	112-80-1	05/03/11 14:47	05/09/11 16:43	91	1
Unknown	7.1	TJ B	ug/L		12.35		05/03/11 14:47	05/09/11 16:43	76	1
Tetracosane	1.7	TJN	ug/L		13.26	646-31-1	05/03/11 14:47	05/09/11 16:43	94	1
(Carbethoxyethylidine)triphenylphosphora	14	TJN	ug/L		14.00	5717-37-3	05/03/11 14:47	05/09/11 16:43	91	1
Unknown	1.9	TJ B	ug/L		14.04		05/03/11 14:47	05/09/11 16:43	76	1
Nonadecane	1.3	TJN	ug/L		15.52	629-92-5	05/03/11 14:47	05/09/11 16:43	91	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		34 - 130	05/03/11 14:47	05/09/11 16:43	1
2-Fluorophenol	47		25 - 130	05/03/11 14:47	05/09/11 16:43	1
Nitrobenzene-d5	55		32 - 130	05/03/11 14:47	05/09/11 16:43	1
Phenol-d5	44		27 - 130	05/03/11 14:47	05/09/11 16:43	1
Terphenyl-d14	62		36 - 130	05/03/11 14:47	05/09/11 16:43	1
2,4,6-Tribromophenol	64		30 - 130	05/03/11 14:47	05/09/11 16:43	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			04/29/11 23:34	1
Ethanol	1000	U	1000	330	ug/L			04/29/11 23:34	1
Isopropanol	1000	U	1000	300	ug/L			04/29/11 23:34	1
Methanol	1000	U	1000	830	ug/L			04/29/11 23:34	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**83**	**J**	100	50	ug/L		05/03/11 17:33	05/05/11 20:35	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:35	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 20:35	1
Barium	**140**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 20:35	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 20:35	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 20:35	1
Calcium	**150000**		500	170	ug/L		05/03/11 17:33	05/05/11 20:35	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 20:35	1
Cobalt	**0.36**	**J**	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 20:35	1
Copper	**1.1**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 20:35	1
Iron	**4200**		100	44	ug/L		05/03/11 17:33	05/05/11 20:35	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 20:35	1
Magnesium	**11000**		250	100	ug/L		05/03/11 17:33	05/05/11 20:35	1
Manganese	**980**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:35	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 20:35	1
Nickel	**2.5**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 20:35	1
Potassium	**6300**		1000	330	ug/L		05/03/11 17:33	05/05/11 20:35	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 20:35	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 20:35	1
Sodium	**49000**		500	170	ug/L		05/03/11 17:33	05/05/11 20:35	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 20:35	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 20:35	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:33	05/05/11 20:35	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-5
Date Collected: 04/27/11 09:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130000**		2000	360	ug/L			05/14/11 13:00	2
Nitrogen, Kjeldahl	**340**		200	150	ug/L		05/11/11 19:55	05/13/11 12:58	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:09	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:09	1
Sulfate	**180000**		50000	25000	ug/L			05/13/11 14:19	10
Total Organic Carbon	**1300**		1000	500	ug/L			05/13/11 10:11	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 01:29	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 01:29	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 01:29	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 01:29	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 01:29	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 01:29	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 01:29	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 01:29	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 01:29	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 01:29	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 01:29	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 01:29	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 01:29	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:29	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 01:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 01:29	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 01:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 01:29	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 01:29	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 01:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 01:29	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 01:29	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 01:29	1
Isobutyl alcohol	40	U	40	11	ug/L			05/03/11 01:29	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 01:29	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 01:29	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 01:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 01:29	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 01:29	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 01:29	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 01:29	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 01:29	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 01:29	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 01:29	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/03/11 01:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 01:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 01:29	1

TestAmerica Savannah

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 01:29	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 01:29	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 01:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 01:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 01:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 01:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 01:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 01:29	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 01:29	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 01:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 01:29	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 01:29	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 01:29	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 01:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 01:29*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*05/03/11 01:29*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/03/11 01:29*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 01:29*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 17:10	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 17:10	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 17:10	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,4-Dichlorobenzene	0.11	~~U~~ B	0.95	0.095	ug/L	MB	05/03/11 14:47	05/09/11 17:10	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dichlorophenol	0.95	U L	0.95	0.095	ug/L	BSL	05/03/11 14:47	05/09/11 17:10	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 17:10	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:10	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 17:10	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 17:10	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/09/11 17:10	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:10	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/03/11 14:47	05/09/11 17:10	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 17:10	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L	BSL	05/03/11 14:47	05/09/11 17:10	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:10	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:10	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.0	ug/L	ICL	05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:10	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 17:10	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:10	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:10	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:10	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*27*	~~J~~ A J	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 17:10* 50	*1*
Unknown	*1.4*	~~J~~ J	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 17:10* 58	*1*
Unknown	*6.3*	~~J~~ B	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 17:10* 76	*1*

SM 7/5/2011

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.2	TJB	ug/L		8.65		05/03/11 14:47	05/09/11 17:10	1
Unknown	1.3	TJ	ug/L		12.14		05/03/11 14:47	05/09/11 17:10	1
Unknown	1.4	TJB	ug/L		12.17		05/03/11 14:47	05/09/11 17:10	1
Unknown	4.4	TJB	ug/L		12.35		05/03/11 14:47	05/09/11 17:10	1
Octadecanoic acid, butyl ester	2.9	TJN	ug/L		13.21	123-95-5	05/03/11 14:47	05/09/11 17:10	1
(Carbethoxyethylidine)triphenylphosphora	20	TJN	ug/L		13.99	5717-37-3	05/03/11 14:47	05/09/11 17:10	1
Hexadecane	2.0	TJN	ug/L		14.05	544-76-3	05/03/11 14:47	05/09/11 17:10	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		34 - 130	05/03/11 14:47	05/09/11 17:10	1
2-Fluorophenol	55		25 - 130	05/03/11 14:47	05/09/11 17:10	1
Nitrobenzene-d5	61		32 - 130	05/03/11 14:47	05/09/11 17:10	1
Phenol-d5	54		27 - 130	05/03/11 14:47	05/09/11 17:10	1
Terphenyl-d14	76		36 - 130	05/03/11 14:47	05/09/11 17:10	1
2,4,6-Tribromophenol	73		30 - 130	05/03/11 14:47	05/09/11 17:10	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 21:11	1
Ethanol	1000	U	1000	330	ug/L			05/10/11 18:04	1
Isopropanol	1000	U	1000	300	ug/L			05/10/11 18:04	1
Methanol	1000	U	1000	830	ug/L			05/10/11 18:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	50	ug/L		05/03/11 17:33	05/05/11 21:10	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:10	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:10	1
Barium	**76**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:10	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:10	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:10	1
Calcium	**46000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:10	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:10	1
Cobalt	**0.16**	**J**	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:10	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:10	1
Iron	**2300**		100	44	ug/L		05/03/11 17:33	05/05/11 21:10	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:10	1
Magnesium	**2800**		250	100	ug/L		05/03/11 17:33	05/05/11 21:10	1
Manganese	**290**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:10	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:10	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:10	1
Potassium	**4000**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:10	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:10	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:10	1
Sodium	**12000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:10	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:10	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:10	1
Zinc	**31**		20	8.4	ug/L		05/03/11 17:33	05/05/11 21:10	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-4
Date Collected: 04/27/11 10:50
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8100**		2000	360	ug/L			05/14/11 13:02	2
Nitrogen, Kjeldahl	**210**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:15	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:15	1
Sulfate	**18000**		5000	2500	ug/L			05/13/11 14:17	1
Total Organic Carbon	**600**	**J**	1000	500	ug/L			05/13/11 13:59	1

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 14:03	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 14:03	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 14:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 14:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 14:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 14:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 14:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 14:03	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 14:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 14:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 14:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 14:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 14:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 14:03	1
cis-1,2-Dichloroethene	**0.16**	**J**	1.0	0.15	ug/L			05/03/11 14:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 14:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 14:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 14:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
1,1-Dichloroethane	**2.4**		1.0	0.25	ug/L			05/03/11 14:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 14:03	1
1,1-Dichloroethene	**2.5**		1.0	0.11	ug/L			05/03/11 14:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 14:03	1
Diethyl ether	**78**		10	1.0	ug/L			05/03/11 14:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 14:03	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 14:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 14:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 14:03	1
Isobutyl alcohol	40	U R	40	11	ug/L	KL		05/03/11 14:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 14:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 14:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 14:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 14:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 14:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 14:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 14:03	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 14:03	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 14:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 14:03	1
t-Butanol	**44**		5.0	2.6	ug/L			05/03/11 14:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 14:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 14:03	1

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 14:03	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 14:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 14:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 14:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 14:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 14:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 14:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 14:03	1
Trichloroethylene	**0.62**	**J**	1.0	0.13	ug/L			05/03/11 14:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 14:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 14:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 14:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 14:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 14:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methyl naphthalene isomer	*11*	*TJN*	*ug/L*		*6.60*			*05/03/11 14:03*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/03/11 14:03*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/03/11 14:03*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 14:03*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Aminobiphenyl	4.8	U	4.8	0.29	ug/L		05/03/11 14:47	05/09/11 17:38	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 17:38	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 17:38	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,4-Dichlorobenzene	**0.16**	~~J B~~ B	0.95	0.095	ug/L	MBL	05/03/11 14:47	05/09/11 17:38	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dichlorophenol	0.95	U L	0.95	0.095	ug/L	BSL	05/03/11 14:47	05/09/11 17:38	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 17:38	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:38	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 17:38	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 17:38	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,4-Dioxane	**2.3**		1.9	0.29	ug/L		05/03/11 14:47	05/09/11 17:38	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:38	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/03/11 14:47	05/09/11 17:38	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 17:38	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L	BSL	05/03/11 14:47	05/09/11 17:38	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 17:38	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 17:38	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.0	ug/L	ICL	05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:38	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Pyridine	4.8	U	4.8	0.69	ug/L		05/03/11 14:47	05/09/11 17:38	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 17:38	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 17:38	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 17:38	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 17:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*34*	*JAX B*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 17:38*	*1*
Unknown	*1.1*	*J*	*ug/L*		*4.96*		*05/03/11 14:47*	*05/09/11 17:38*	*1*
Unknown	*10*	*J*	*ug/L*		*5.04*		*05/03/11 14:47*	*05/09/11 17:38*	*1*

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.3	TJ	ug/L		5.13		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.8	TJ	ug/L		6.10		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.9	TJ	ug/L		7.13		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.3	TJ	ug/L		7.92		05/03/11 14:47	05/09/11 17:38	1
Unknown	1.7	TJ	ug/L		8.65		05/03/11 14:47	05/09/11 17:38	1
Unknown Organic Acid	2.2	TJB	ug/L		12.15		05/03/11 14:47	05/09/11 17:38	1
~~(Carbethoxyethylidine)triphenylphosp hora~~ Unknown Organic Acid	18	TJN	ug/L		13.99	5717-37-3	05/03/11 14:47	05/09/11 17:38	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		34 - 130	05/03/11 14:47	05/09/11 17:38	1
2-Fluorophenol	63		25 - 130	05/03/11 14:47	05/09/11 17:38	1
Nitrobenzene-d5	72		32 - 130	05/03/11 14:47	05/09/11 17:38	1
Phenol-d5	60		27 - 130	05/03/11 14:47	05/09/11 17:38	1
Terphenyl-d14	79		36 - 130	05/03/11 14:47	05/09/11 17:38	1
2,4,6-Tribromophenol	81		30 - 130	05/03/11 14:47	05/09/11 17:38	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 21:35	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 05:53	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 05:53	1
Methanol	1000	U	1000	830	ug/L			05/08/11 05:53	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**590**		100	50	ug/L		05/03/11 17:33	05/05/11 21:17	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:17	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:17	1
Barium	**120**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:17	1
Beryllium	**0.26**	**J**	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:17	1
Cadmium	**0.91**		0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:17	1
Calcium	**140000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:17	1
Chromium	**2.6**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:17	1
Cobalt	**0.37**	**J**	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:17	1
Copper	**1.6**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:17	1
Iron	**8200**		100	44	ug/L		05/03/11 17:33	05/05/11 21:17	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:17	1
Magnesium	**14000**		250	100	ug/L		05/03/11 17:33	05/05/11 21:17	1
Manganese	**1700**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:17	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:17	1
Nickel	**2.4**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:17	1
Potassium	**8200**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:17	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:17	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:17	1
Sodium	**88000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:17	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:17	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:17	1
Zinc	**14**	**J**	20	8.4	ug/L		05/03/11 17:33	05/05/11 21:17	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-1
Date Collected: 04/27/11 09:15
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120000**		2000	360	ug/L			05/14/11 13:00	2
Nitrogen, Kjeldahl	**500**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**59**		50	10	ug/L			04/28/11 17:16	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:16	1
Sulfate	**330000**		50000	25000	ug/L			05/13/11 14:21	10
Total Organic Carbon	**1400**		1000	500	ug/L			05/13/11 14:30	1

Client Sample ID: LF-2
Date Collected: 04/27/11 11:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 13:06	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 13:06	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 13:06	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 13:06	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 13:06	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 13:06	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 13:06	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 13:06	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 13:06	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 13:06	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 13:06	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 13:06	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 13:06	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:06	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 13:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 13:06	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 13:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
1,1-Dichloroethane	**0.28**	**J**	1.0	0.25	ug/L			05/03/11 13:06	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:06	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 13:06	1
Diethyl ether	**30**		10	1.0	ug/L			05/03/11 13:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 13:06	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 13:06	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 13:06	1
Isobutyl alcohol	40	U R	40	11	ug/L	IRL		05/03/11 13:06	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 13:06	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 13:06	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 13:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 13:06	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 13:06	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 13:06	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 13:06	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 13:06	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 13:06	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 13:06	1
t-Butanol	**30**		5.0	2.6	ug/L			05/03/11 13:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 13:06	1

Client Sample ID: LF-2
Date Collected: 04/27/11 11:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:06	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 13:06	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 13:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 13:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 13:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 13:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 13:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 13:06	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 13:06	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 13:06	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 13:06	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 13:06	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 13:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 13:06*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/03/11 13:06*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/03/11 13:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/03/11 13:06*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 21:59	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 06:17	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 06:17	1
Methanol	**2600**		1000	830	ug/L			05/08/11 06:17	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**150**		100	50	ug/L		05/03/11 17:33	05/05/11 21:24	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:24	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:24	1
Barium	**91**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:24	1
Beryllium	**0.17**	**J**	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:24	1
Cadmium	**6.4**		0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:24	1
Calcium	**100000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:24	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:24	1
Cobalt	**0.55**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:24	1
Copper	**1.2**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:24	1
Iron	**6000**		100	44	ug/L		05/03/11 17:33	05/05/11 21:24	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:24	1
Magnesium	**8900**		250	100	ug/L		05/03/11 17:33	05/05/11 21:24	1
Manganese	**970**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:24	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:24	1
Nickel	**4.0**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:24	1
Potassium	**7300**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:24	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:24	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:24	1

Client Sample ID: LF-2
Date Collected: 04/27/11 11:10
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**54000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:24	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:24	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:24	1
Zinc	**19**	**J**	20	8.4	ug/L		05/03/11 17:33	05/05/11 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94000**		2000	360	ug/L			05/14/11 13:05	2
Nitrogen, Kjeldahl	**340**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**100**		50	10	ug/L			04/28/11 17:17	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:17	1
Sulfate	**170000**		50000	25000	ug/L			05/13/11 14:39	10
Total Organic Carbon	**1200**		1000	500	ug/L			05/13/11 14:46	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 01:55	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 01:55	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 01:55	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 01:55	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 01:55	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 01:55	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 01:55	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 01:55	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 01:55	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 01:55	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 01:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 01:55	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 01:55	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 01:55	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 01:55	1
cis-1,2-Dichloroethene	**0.20**	**J**	1.0	0.15	ug/L			05/04/11 01:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 01:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 01:55	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 01:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 01:55	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 01:55	1
Diethyl ether	**5.9**	**J**	10	1.0	ug/L			05/04/11 01:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 01:55	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 01:55	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 01:55	1
Isobutyl alcohol	40 ~~U~~ R		40	11	ug/L	KL		05/04/11 01:55	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 01:55	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 01:55	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 01:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 01:55	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 01:55	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 01:55	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 01:55	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 01:55	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 01:55	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 01:55	1
t-Butanol ☆	~~390~~ E		5.0	2.6	ug/L			05/04/11 01:55	1 N
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 01:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 01:55	1

☆ Repeat from dilution

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 01:55	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 01:55	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 01:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 01:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 01:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 01:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 01:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 01:55	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 01:55	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 01:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 01:55	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 01:55	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 01:55	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 01:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 01:55*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/04/11 01:55*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/04/11 01:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 01:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/03/11 15:01	20
Acetonitrile	800	U	800	200	ug/L			05/03/11 15:01	20
Acrolein	400	U	400	150	ug/L			05/03/11 15:01	20
Acrylonitrile	400	U	400	140	ug/L			05/03/11 15:01	20
Allyl chloride	20	U	20	4.0	ug/L			05/03/11 15:01	20
Benzene	20	U	20	5.0	ug/L			05/03/11 15:01	20
Benzyl chloride	20	U	20	20	ug/L			05/03/11 15:01	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
Bromoform	20	U	20	10	ug/L			05/03/11 15:01	20
Bromomethane	20	U	20	16	ug/L			05/03/11 15:01	20
2-Butanone	200	U	200	20	ug/L			05/03/11 15:01	20
Carbon disulfide	40	U	40	12	ug/L			05/03/11 15:01	20
Carbon tetrachloride	20	U	20	10	ug/L			05/03/11 15:01	20
Chlorobenzene	20	U	20	5.0	ug/L			05/03/11 15:01	20
Chloroethane	20	U	20	20	ug/L			05/03/11 15:01	20
Chloroform	20	U	20	2.8	ug/L			05/03/11 15:01	20
Chloromethane	20	U	20	6.6	ug/L			05/03/11 15:01	20
Chloroprene	20	U	20	6.0	ug/L			05/03/11 15:01	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/03/11 15:01	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/03/11 15:01	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/03/11 15:01	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/03/11 15:01	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
Dibromomethane	20	U	20	4.0	ug/L			05/03/11 15:01	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/03/11 15:01	20

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/03/11 15:01	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/03/11 15:01	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/03/11 15:01	20
Diethyl ether	200	U	200	20	ug/L			05/03/11 15:01	20
Ethylbenzene	20	U	20	2.2	ug/L			05/03/11 15:01	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/03/11 15:01	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/03/11 15:01	20
2-Hexanone	200	U	200	20	ug/L			05/03/11 15:01	20
Iodomethane	100	U	100	20	ug/L			05/03/11 15:01	20
Isobutyl alcohol	800	U	800	220	ug/L			05/03/11 15:01	20
Methacrylonitrile	400	U	400	66	ug/L			05/03/11 15:01	20
Methylene Chloride	100	U	100	20	ug/L			05/03/11 15:01	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/03/11 15:01	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/03/11 15:01	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/03/11 15:01	20
n-Heptane	20	U	20	8.4	ug/L			05/03/11 15:01	20
Pentachloroethane	100	U	100	24	ug/L			05/03/11 15:01	20
Propionitrile	400	U	400	92	ug/L			05/03/11 15:01	20
Propylene oxide	4000	U	4000	4000	ug/L			05/03/11 15:01	20
Styrene	20	U	20	2.2	ug/L			05/03/11 15:01	20
t-Butanol	**300**	D	100	52	ug/L			05/03/11 15:01	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/03/11 15:01	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/03/11 15:01	20
Tetrachloroethene	20	U	20	3.0	ug/L			05/03/11 15:01	20
Toluene	20	U	20	6.6	ug/L			05/03/11 15:01	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/03/11 15:01	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/03/11 15:01	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/03/11 15:01	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/03/11 15:01	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/03/11 15:01	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/03/11 15:01	20
Trichloroethylene	20	U	20	2.6	ug/L			05/03/11 15:01	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/03/11 15:01	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/03/11 15:01	20
Vinyl acetate	40	U	40	5.6	ug/L			05/03/11 15:01	20
Vinyl chloride	20	U	20	3.6	ug/L			05/03/11 15:01	20
Xylenes, Total	40	U	40	4.0	ug/L			05/03/11 15:01	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 15:01*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/03/11 15:01*	*20*
Dibromofluoromethane	*97*		*70 - 130*		*05/03/11 15:01*	*20*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/03/11 15:01*	*20*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1

Repeat

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/03/11 14:47	05/09/11 18:05	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 18:05	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 18:05	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,4-Dichlorobenzene	**0.12**	JB	0.95	0.095	ug/L	MB	05/03/11 14:47	05/09/11 18:05	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L	BSL	05/03/11 14:47	05/09/11 18:05	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 18:05	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:05	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L	BSL	05/03/11 14:47	05/09/11 18:05	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 18:05	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,4-Dioxane	**14**		1.9	0.29	ug/L		05/03/11 14:47	05/09/11 18:05	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:05	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Hexachlorophene	470	U L	470	24	ug/L	BSL	05/03/11 14:47	05/09/11 18:05	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 18:05	1
3 & 4 Methylphenol	1.9	U L	1.9	0.62	ug/L	BSL	05/03/11 14:47	05/09/11 18:05	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 18:05	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:05	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.0	ug/L	ICL	05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:05	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/03/11 14:47	05/09/11 18:05	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:05	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:05	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:05	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 18:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
~~Unknown Aldol Condensate~~	44	TAJB	ug/L		4.00		05/03/11 14:47	05/09/11 18:05	1
Unknown	200	J	ug/L		6.12		05/03/11 14:47	05/09/11 18:05	1
Unknown	220	J	ug/L		7.97		05/03/11 14:47	05/09/11 18:05	1
Unknown	170	J	ug/L		9.58		05/03/11 14:47	05/09/11 18:05	1
Unknown	18	J	ug/L		9.88		05/03/11 14:47	05/09/11 18:05	1
Unknown	42	J	ug/L		9.92		05/03/11 14:47	05/09/11 18:05	1
Unknown	120	J	ug/L		11.00		05/03/11 14:47	05/09/11 18:05	1
Unknown	21	J	ug/L		12.27		05/03/11 14:47	05/09/11 18:05	1
Unknown	11	JB	ug/L		14.00		05/03/11 14:47	05/09/11 18:05	1
Unknown	11	J	ug/L		14.64		05/03/11 14:47	05/09/11 18:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	71		34 - 130	05/03/11 14:47	05/09/11 18:05	1
2-Fluorophenol	56		25 - 130	05/03/11 14:47	05/09/11 18:05	1
Nitrobenzene-d5	69		32 - 130	05/03/11 14:47	05/09/11 18:05	1
Phenol-d5	64		27 - 130	05/03/11 14:47	05/09/11 18:05	1
Terphenyl-d14	71		36 - 130	05/03/11 14:47	05/09/11 18:05	1
2,4,6-Tribromophenol	75		30 - 130	05/03/11 14:47	05/09/11 18:05	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 22:23	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 06:40	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 06:40	1
Methanol	**1700**		1000	830	ug/L			05/08/11 06:40	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**840**		100	50	ug/L		05/03/11 17:33	05/05/11 21:45	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:45	1

Client Sample ID: LF-3
Date Collected: 04/27/11 12:20
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 21:45	1
Barium	**190**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 21:45	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 21:45	1
Cadmium	**0.55**		0.50	0.13	ug/L		05/03/11 17:33	05/05/11 21:45	1
Calcium	**92000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:45	1
Chromium	**3.0**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 21:45	1
Cobalt	**12**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 21:45	1
Copper	**2.7**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 21:45	1
Iron	**4400**		100	44	ug/L		05/03/11 17:33	05/05/11 21:45	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 21:45	1
Magnesium	**28000**		250	100	ug/L		05/03/11 17:33	05/05/11 21:45	1
Manganese	**6100**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:45	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 21:45	1
Nickel	**16**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 21:45	1
Potassium	**6800**		1000	330	ug/L		05/03/11 17:33	05/05/11 21:45	1
Selenium	**1.4**	**J**	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 21:45	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 21:45	1
Sodium	**280000**		500	170	ug/L		05/03/11 17:33	05/05/11 21:45	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 21:45	1
Vanadium	**3.9**	**J**	10	3.2	ug/L		05/03/11 17:33	05/05/11 21:45	1
Zinc	**62**		20	8.4	ug/L		05/03/11 17:33	05/05/11 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180000**		2000	360	ug/L			05/14/11 13:05	2
Nitrogen, Kjeldahl	**1800**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**96**		50	10	ug/L			04/28/11 17:19	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:19	1
Sulfate	**350000**		100000	50000	ug/L			05/13/11 14:40	20
Total Organic Carbon	**3600**		1000	500	ug/L			05/13/11 15:04	1

Client Sample ID: WWL-2
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/03/11 13:34	1
Acetonitrile	40	U	40	10	ug/L			05/03/11 13:34	1
Acrolein	20	U	20	7.4	ug/L			05/03/11 13:34	1
Acrylonitrile	20	U	20	7.2	ug/L			05/03/11 13:34	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/03/11 13:34	1
Benzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/03/11 13:34	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/03/11 13:34	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/03/11 13:34	1
2-Butanone	10	U	10	1.0	ug/L			05/03/11 13:34	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/03/11 13:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/03/11 13:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/03/11 13:34	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/03/11 13:34	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:34	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/03/11 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/03/11 13:34	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/03/11 13:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/03/11 13:34	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/03/11 13:34	1
Diethyl ether	10	U	10	1.0	ug/L			05/03/11 13:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
Ethylene oxide	200	U	200	200	ug/L			05/03/11 13:34	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
2-Hexanone	10	U	10	1.0	ug/L			05/03/11 13:34	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/03/11 13:34	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/03/11 13:34	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/03/11 13:34	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/03/11 13:34	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/03/11 13:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/03/11 13:34	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/03/11 13:34	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/03/11 13:34	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 13:34	1
Propionitrile	20	U	20	4.6	ug/L			05/03/11 13:34	1
Propylene oxide	200	U	200	200	ug/L			05/03/11 13:34	1
Styrene	1.0	U	1.0	0.11	ug/L			05/03/11 13:34	1
t-Butanol	73		5.0	2.6	ug/L			05/03/11 13:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/03/11 13:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/03/11 13:34	1

Client Sample ID: WWL-2
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/03/11 13:34	1
Toluene	1.0	U	1.0	0.33	ug/L			05/03/11 13:34	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/03/11 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/03/11 13:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/03/11 13:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/03/11 13:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/03/11 13:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/03/11 13:34	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/03/11 13:34	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/03/11 13:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/03/11 13:34	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/03/11 13:34	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/03/11 13:34	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/03/11 13:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 13:34*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 13:34*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/03/11 13:34*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/03/11 13:34*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 22:46	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 07:04	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 07:04	1
Methanol	1000	U	1000	830	ug/L			05/08/11 07:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1900**		100	50	ug/L		05/03/11 17:33	05/06/11 02:11	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:11	1
Arsenic	**5.0**		2.5	1.3	ug/L		05/03/11 17:33	05/06/11 02:11	1
Barium	**2100**		5.0	1.4	ug/L		05/03/11 17:33	05/06/11 02:11	1
Beryllium	**0.16**	**J**	0.50	0.15	ug/L		05/03/11 17:33	05/06/11 02:11	1
Cadmium	**0.28**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/06/11 02:11	1
Calcium	**1400000**		2000	680	ug/L		05/03/11 17:33	05/05/11 21:52	4
Chromium	**7.1**		5.0	2.5	ug/L		05/03/11 17:33	05/06/11 02:11	1
Cobalt	**110**		0.50	0.12	ug/L		05/03/11 17:33	05/06/11 02:11	1
Copper	**6.8**		5.0	1.1	ug/L		05/03/11 17:33	05/06/11 02:11	1
Iron	**13000**		100	44	ug/L		05/03/11 17:33	05/06/11 02:11	1
Lead	**2.1**		1.5	0.50	ug/L		05/03/11 17:33	05/06/11 02:11	1
Magnesium	**560000**		1000	400	ug/L		05/03/11 17:33	05/05/11 21:52	4
Manganese	**31000**		20	8.0	ug/L		05/03/11 17:33	05/05/11 21:52	4
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/06/11 02:11	1
Nickel	**27**		5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:11	1
Potassium	**1100**		1000	330	ug/L		05/03/11 17:33	05/06/11 02:11	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/06/11 02:11	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/06/11 02:11	1

Client Sample ID: WWL-2
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**790000**		2000	680	ug/L		05/03/11 17:33	05/05/11 21:52	4
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/06/11 02:11	1
Vanadium	**4.4**	**J**	10	3.2	ug/L		05/03/11 17:33	05/06/11 02:11	1
Zinc	**26**		20	8.4	ug/L		05/03/11 17:33	05/06/11 02:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5000000**		100000	18000	ug/L			05/14/11 13:05	100
Nitrogen, Kjeldahl	**1100**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:20	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:20	1
Sulfate	**63000**		10000	5000	ug/L			05/13/11 14:39	2
Total Organic Carbon	**67000**		1000	500	ug/L			05/13/11 15:21	1

Client Sample ID: WWL-1
Date Collected: 04/27/11 14:35
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/03/11 16:27	5
Acetonitrile	200	U	200	50	ug/L			05/03/11 16:27	5
Acrolein	100	U	100	37	ug/L			05/03/11 16:27	5
Acrylonitrile	100	U	100	36	ug/L			05/03/11 16:27	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
Benzene	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/03/11 16:27	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/03/11 16:27	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/03/11 16:27	5
2-Butanone	50	U	50	5.0	ug/L			05/03/11 16:27	5
Carbon disulfide	10	U	10	3.0	ug/L			05/03/11 16:27	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/03/11 16:27	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/03/11 16:27	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/03/11 16:27	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/03/11 16:27	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/03/11 16:27	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/03/11 16:27	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/03/11 16:27	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/03/11 16:27	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/03/11 16:27	5
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/03/11 16:27	5
Diethyl ether	**100**		50	5.0	ug/L			05/03/11 16:27	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/03/11 16:27	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
2-Hexanone	50	U	50	5.0	ug/L			05/03/11 16:27	5
Iodomethane	25	U	25	5.0	ug/L			05/03/11 16:27	5
Isobutyl alcohol	200	~~U~~ R	200	55	ug/L	KL		05/03/11 16:27	5
Methacrylonitrile	100	U	100	16	ug/L			05/03/11 16:27	5
Methylene Chloride	25	U	25	5.0	ug/L			05/03/11 16:27	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/03/11 16:27	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/03/11 16:27	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/03/11 16:27	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/03/11 16:27	5
Pentachloroethane	25	U	25	6.0	ug/L			05/03/11 16:27	5
Propionitrile	100	U	100	23	ug/L			05/03/11 16:27	5
Propylene oxide	1000	U	1000	1000	ug/L			05/03/11 16:27	5
Styrene	5.0	U	5.0	0.55	ug/L			05/03/11 16:27	5
t-Butanol	**330**		25	13	ug/L			05/03/11 16:27	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/03/11 16:27	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/03/11 16:27	5

Client Sample ID: WWL-1
Date Collected: 04/27/11 14:35
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/03/11 16:27	5
Toluene	5.0	U	5.0	1.6	ug/L			05/03/11 16:27	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/03/11 16:27	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/03/11 16:27	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/03/11 16:27	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/03/11 16:27	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/03/11 16:27	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/03/11 16:27	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/03/11 16:27	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/03/11 16:27	5
Vinyl acetate	10	U	10	1.4	ug/L			05/03/11 16:27	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/03/11 16:27	5
Xylenes, Total	10	U	10	1.0	ug/L			05/03/11 16:27	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*35*	*J N*	*ug/L*		*2.02*			*05/03/11 16:27*	*5*
Unknown Alkane	*37*	*J N*	*ug/L*		*5.42*			*05/03/11 16:27*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 16:27*	*5*
Dibromofluoromethane	*96*		*70 - 130*		*05/03/11 16:27*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/03/11 16:27*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 23:10	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 07:28	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 07:28	1
Methanol	1000	U	1000	830	ug/L			05/08/11 07:28	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**530**		100	50	ug/L		05/03/11 17:33	05/06/11 02:19	1
Antimony	**2.2**	**J**	5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:19	1
Arsenic	**1.8**	**J**	2.5	1.3	ug/L		05/03/11 17:33	05/06/11 02:19	1
Barium	**520**		5.0	1.4	ug/L		05/03/11 17:33	05/06/11 02:19	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/06/11 02:19	1
Cadmium	**0.29**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/06/11 02:19	1
Calcium	**210000**		500	170	ug/L		05/03/11 17:33	05/06/11 02:19	1
Chromium	**4.9**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/06/11 02:19	1
Cobalt	**2.1**		0.50	0.12	ug/L		05/03/11 17:33	05/06/11 02:19	1
Copper	**1.6**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/06/11 02:19	1
Iron	**110000**		100	44	ug/L		05/03/11 17:33	05/06/11 02:19	1
Lead	**0.66**	**J**	1.5	0.50	ug/L		05/03/11 17:33	05/06/11 02:19	1
Magnesium	**48000**		250	100	ug/L		05/03/11 17:33	05/06/11 02:19	1
Manganese	**3200**		5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:19	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/06/11 02:19	1
Nickel	**5.5**		5.0	2.0	ug/L		05/03/11 17:33	05/06/11 02:19	1
Potassium	**6300**		1000	330	ug/L		05/03/11 17:33	05/06/11 02:19	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/06/11 02:19	1

Client Sample ID: WWL-1
Date Collected: 04/27/11 14:35
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/06/11 02:19	1
Sodium	**460000**		1000	340	ug/L		05/03/11 17:33	05/05/11 21:59	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/06/11 02:19	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/06/11 02:19	1
Zinc	**14**	**J**	20	8.4	ug/L		05/03/11 17:33	05/06/11 02:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**600000**		10000	1800	ug/L			05/14/11 13:05	10
Nitrogen, Kjeldahl	**1400**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:21	1
Nitrite as N	**22**	**J**	50	10	ug/L			04/28/11 17:21	1
Sulfate	**340000**		50000	25000	ug/L			05/13/11 14:23	10
Total Organic Carbon	**280000**		5000	2500	ug/L			05/16/11 15:51	5

Client Sample ID: Trip Blank 2
Date Collected: 04/27/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 19:15	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 19:15	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 19:15	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 19:15	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 19:15	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 19:15	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 19:15	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 19:15	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 19:15	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 19:15	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 19:15	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 19:15	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 19:15	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 19:15	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 19:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 19:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 19:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 19:15	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 19:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 19:15	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 19:15	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 19:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 19:15	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 19:15	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 19:15	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L		ICL	05/04/11 19:15	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 19:15	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 19:15	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 19:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 19:15	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 19:15	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 19:15	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 19:15	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 19:15	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 19:15	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 19:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 19:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 19:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 19:15	1

Client Sample ID: Trip Blank 2
Date Collected: 04/27/11 00:00
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 19:15	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 19:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 19:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 19:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 19:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 19:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 19:15	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 19:15	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 19:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 19:15	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 19:15	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 19:15	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 19:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 19:15*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/04/11 19:15*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 19:15*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 19:15*	*1*

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/02/11 20:13	1
Acetonitrile	40	U	40	10	ug/L			05/02/11 20:13	1
Acrolein	20	U	20	7.4	ug/L			05/02/11 20:13	1
Acrylonitrile	20	U	20	7.2	ug/L			05/02/11 20:13	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/02/11 20:13	1
Benzene	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/02/11 20:13	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/02/11 20:13	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/02/11 20:13	1
2-Butanone	10	U	10	1.0	ug/L			05/02/11 20:13	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/02/11 20:13	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/02/11 20:13	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/02/11 20:13	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/02/11 20:13	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/02/11 20:13	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/02/11 20:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 20:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/02/11 20:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/02/11 20:13	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/02/11 20:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/02/11 20:13	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/02/11 20:13	1
Diethyl ether	10	U	10	1.0	ug/L			05/02/11 20:13	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
Ethylene oxide	200	U	200	200	ug/L			05/02/11 20:13	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
2-Hexanone	10	U	10	1.0	ug/L			05/02/11 20:13	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/02/11 20:13	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/02/11 20:13	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/02/11 20:13	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/02/11 20:13	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/02/11 20:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/02/11 20:13	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/02/11 20:13	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/02/11 20:13	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/02/11 20:13	1
Propionitrile	20	U	20	4.6	ug/L			05/02/11 20:13	1
Propylene oxide	200	U	200	200	ug/L			05/02/11 20:13	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/11 20:13	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/02/11 20:13	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/02/11 20:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/11 20:13	1

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/02/11 20:13	1
Toluene	1.0	U	1.0	0.33	ug/L			05/02/11 20:13	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/02/11 20:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/02/11 20:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/02/11 20:13	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/02/11 20:13	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/02/11 20:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/02/11 20:13	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/02/11 20:13	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/02/11 20:13	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/02/11 20:13	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/02/11 20:13	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/02/11 20:13	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/02/11 20:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl Alcohol	*35*	*J N*	*ug/L*		*1.99*	*67-63-0*		*05/02/11 20:13*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/02/11 20:13*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/02/11 20:13*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/02/11 20:13*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Acetophenone	**0.16**	**J B**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 18:32	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 18:32	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1

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Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 18:32	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,4-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dichlorophenol	0.95	U L	0.95	0.095	ug/L	BSL	05/03/11 14:47	05/09/11 18:32	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 18:32	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:32	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 18:32	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 18:32	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/09/11 18:32	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:32	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/03/11 14:47	05/09/11 18:32	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 18:32	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L	BSL	05/03/11 14:47	05/09/11 18:32	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 18:32	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1

Client Sample ID: Equipment Blank

Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 18:32	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.0	ug/L	ICL	05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:32	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 18:32	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 18:32	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 18:32	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 18:32	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/09/11 18:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*21*	~~TA~~ J	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 18:32*	56 1
Unknown	*1.8*	J	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 18:32*	86 1
Unknown	*9.7*	J	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 18:32*	76 1

Client Sample ID: Equipment Blank

Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Nonanal	1.4	TJN	ug/L		6.28	124-19-6	05/03/11 14:47	05/09/11 18:32	1
Unknown	0.81	TJ	ug/L		7.70		05/03/11 14:47	05/09/11 18:32	1
Unknown	3.0	TJ	ug/L		8.64		05/03/11 14:47	05/09/11 18:32	1
Phenol, 2,4-bis(1,1-dimethylethyl)-	1.1	TJN	ug/L		8.91	96-76-4	05/03/11 14:47	05/09/11 18:32	1
Unknown	2.2	TJ	ug/L		11.19		05/03/11 14:47	05/09/11 18:32	1
Unknown	16	TJ	ug/L		13.99		05/03/11 14:47	05/09/11 18:32	1
Unknown	1.4	TJ	ug/L		19.45		05/03/11 14:47	05/09/11 18:32	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		34 - 130	05/03/11 14:47	05/09/11 18:32	1
2-Fluorophenol	60		25 - 130	05/03/11 14:47	05/09/11 18:32	1
Nitrobenzene-d5	70		32 - 130	05/03/11 14:47	05/09/11 18:32	1
Phenol-d5	57		27 - 130	05/03/11 14:47	05/09/11 18:32	1
Terphenyl-d14	79		36 - 130	05/03/11 14:47	05/09/11 18:32	1
2,4,6-Tribromophenol	73		30 - 130	05/03/11 14:47	05/09/11 18:32	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 23:34	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 07:52	1
Isopropanol	**1500**		1000	300	ug/L			05/08/11 07:52	1
Methanol	1000	U	1000	830	ug/L			05/08/11 07:52	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/03/11 17:33	05/05/11 22:06	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:06	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 22:06	1
Barium	5.0	U	5.0	1.4	ug/L		05/03/11 17:33	05/05/11 22:06	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 22:06	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 22:06	1
Calcium	500	U	500	170	ug/L		05/03/11 17:33	05/05/11 22:06	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 22:06	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/03/11 17:33	05/05/11 22:06	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 22:06	1
Iron	100	U	100	44	ug/L		05/03/11 17:33	05/05/11 22:06	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 22:06	1
Magnesium	250	U	250	100	ug/L		05/03/11 17:33	05/05/11 22:06	1
Manganese	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:06	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 22:06	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:06	1
Potassium	1000	U	1000	330	ug/L		05/03/11 17:33	05/05/11 22:06	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 22:06	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 22:06	1
Sodium	500	U	500	170	ug/L		05/03/11 17:33	05/05/11 22:06	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 22:06	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 22:06	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:33	05/05/11 22:06	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Equipment Blank
Date Collected: 04/27/11 12:45
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/14/11 13:01	1
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**58**		50	10	ug/L			04/28/11 17:22	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:22	1
Sulfate	5000	U	5000	2500	ug/L			05/13/11 13:42	1
Total Organic Carbon	**620**	**J**	1000	500	ug/L			05/13/11 16:03	1

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	500	ug/L			05/03/11 18:55	100
Acetonitrile	4000	U	4000	1000	ug/L			05/03/11 18:55	100
Acrolein	2000	U	2000	740	ug/L			05/03/11 18:55	100
Acrylonitrile	2000	U	2000	720	ug/L			05/03/11 18:55	100
Allyl chloride	100	U	100	20	ug/L			05/03/11 18:55	100
Benzene	100	U	100	25	ug/L			05/03/11 18:55	100
Benzyl chloride	100	U	100	100	ug/L			05/03/11 18:55	100
Bromodichloromethane	100	U	100	25	ug/L			05/03/11 18:55	100
Bromoform	100	U	100	50	ug/L			05/03/11 18:55	100
Bromomethane	100	U	100	80	ug/L			05/03/11 18:55	100
2-Butanone	1000	U	1000	100	ug/L			05/03/11 18:55	100
Carbon disulfide	200	U	200	60	ug/L			05/03/11 18:55	100
Carbon tetrachloride	100	U	100	50	ug/L			05/03/11 18:55	100
Chlorobenzene	100	U	100	25	ug/L			05/03/11 18:55	100
Chloroethane	100	U	100	100	ug/L			05/03/11 18:55	100
Chloroform	100	U	100	14	ug/L			05/03/11 18:55	100
Chloromethane	100	U	100	33	ug/L			05/03/11 18:55	100
Chloroprene	100	U	100	30	ug/L			05/03/11 18:55	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			05/03/11 18:55	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			05/03/11 18:55	100
Dibromochloromethane	100	U	100	10	ug/L			05/03/11 18:55	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			05/03/11 18:55	100
1,2-Dibromoethane	100	U	100	25	ug/L			05/03/11 18:55	100
Dibromomethane	100	U	100	20	ug/L			05/03/11 18:55	100
Dichlorodifluoromethane	100	U	100	25	ug/L			05/03/11 18:55	100
1,1-Dichloroethane	100	U	100	25	ug/L			05/03/11 18:55	100
1,2-Dichloroethane	100	U	100	10	ug/L			05/03/11 18:55	100
1,1-Dichloroethene	100	U	100	11	ug/L			05/03/11 18:55	100
1,2-Dichloropropane	100	U	100	13	ug/L			05/03/11 18:55	100
Diethyl ether	**8100**		1000	100	ug/L			05/03/11 18:55	100
Ethylbenzene	100	U	100	11	ug/L			05/03/11 18:55	100
Ethylene oxide	20000	U	20000	20000	ug/L			05/03/11 18:55	100
Ethyl methacrylate	100	U	100	25	ug/L			05/03/11 18:55	100
2-Hexanone	1000	U	1000	100	ug/L			05/03/11 18:55	100
Iodomethane	500	U	500	100	ug/L			05/03/11 18:55	100
Isobutyl alcohol	4000	U R	4000	1100	ug/L	ICL		05/03/11 18:55	100
Methacrylonitrile	2000	U	2000	330	ug/L			05/03/11 18:55	100
Methylene Chloride	500	U	500	100	ug/L			05/03/11 18:55	100
Methyl methacrylate	100	U	100	48	ug/L			05/03/11 18:55	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	ug/L			05/03/11 18:55	100
Methyl tert-butyl ether	1000	U	1000	20	ug/L			05/03/11 18:55	100
n-Heptane	100	U	100	42	ug/L			05/03/11 18:55	100
Pentachloroethane	500	U	500	120	ug/L			05/03/11 18:55	100
Propionitrile	2000	U	2000	460	ug/L			05/03/11 18:55	100
Propylene oxide	20000	U	20000	20000	ug/L			05/03/11 18:55	100
Styrene	100	U	100	11	ug/L			05/03/11 18:55	100
t-Butanol	500	U	500	260	ug/L			05/03/11 18:55	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			05/03/11 18:55	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			05/03/11 18:55	100

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	100	U	100	15	ug/L			05/03/11 18:55	100
Toluene	100	U	100	33	ug/L			05/03/11 18:55	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			05/03/11 18:55	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			05/03/11 18:55	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			05/03/11 18:55	100
1,2,3-Trichlorobenzene	100	U	100	35	ug/L			05/03/11 18:55	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			05/03/11 18:55	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			05/03/11 18:55	100
Trichloroethylene	100	U	100	13	ug/L			05/03/11 18:55	100
Trichlorofluoromethane	100	U	100	25	ug/L			05/03/11 18:55	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			05/03/11 18:55	100
Vinyl acetate	200	U	200	28	ug/L			05/03/11 18:55	100
Vinyl chloride	100	U	100	18	ug/L			05/03/11 18:55	100
Xylenes, Total	200	U	200	20	ug/L			05/03/11 18:55	100

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/11 18:55*	*100*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/03/11 18:55*	*100*
Dibromofluoromethane	*101*		*70 - 130*		*05/03/11 18:55*	*100*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/03/11 18:55*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 19:00	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 19:00	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Butyl benzyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Chlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 19:00	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,4-Dichlorobenzene	**0.12**	J B	0.96	0.096	ug/L	MB	05/03/11 14:47	05/09/11 19:00	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dichlorophenol	0.96	U L	0.96	0.096	ug/L	BSL	05/03/11 14:47	05/09/11 19:00	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:00	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 19:00	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 19:00	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4-Dinitrotoluene	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,4-Dioxane	**18**		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 19:00	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:00	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/03/11 14:47	05/09/11 19:00	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 19:00	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 19:00	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L	BSL	05/03/11 14:47	05/09/11 19:00	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 19:00	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:00	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.1	ug/L	ICL	05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:00	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pronamide	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 19:00	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:00	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:00	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:00	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*31*	~~JA~~ J B	*ug/L*		*3.99*		*05/03/11 14:47*	*05/09/11 19:00*	50 1
Unknown	*9.6*	~~J~~ J	*ug/L*		*4.74*		*05/03/11 14:47*	*05/09/11 19:00*	60 1
Unknown	*20*	~~J~~ J B	*ug/L*		*4.98*		*05/03/11 14:47*	*05/09/11 19:00*	0 1

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	6.6	TJ	ug/L		5.03		05/03/11 14:47	05/09/11 19:00	1
Unknown	15	TJ	ug/L		5.71		05/03/11 14:47	05/09/11 19:00	1
Unknown	270	TJ	ug/L		6.12		05/03/11 14:47	05/09/11 19:00	1
Unknown	72	TJ	ug/L		7.94		05/03/11 14:47	05/09/11 19:00	1
Unknown	40	TJ	ug/L		9.54		05/03/11 14:47	05/09/11 19:00	1
Unknown	18	TJ	ug/L		10.98		05/03/11 14:47	05/09/11 19:00	1
(Carbethoxyethylidine)triphenylphosphora	14	TJN	ug/L		14.00	5717-37-3	05/03/11 14:47	05/09/11 19:00	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		34 - 130	05/03/11 14:47	05/09/11 19:00	1
2-Fluorophenol	68		25 - 130	05/03/11 14:47	05/09/11 19:00	1
Nitrobenzene-d5	71		32 - 130	05/03/11 14:47	05/09/11 19:00	1
Phenol-d5	65		27 - 130	05/03/11 14:47	05/09/11 19:00	1
Terphenyl-d14	69		36 - 130	05/03/11 14:47	05/09/11 19:00	1
2,4,6-Tribromophenol	82		30 - 130	05/03/11 14:47	05/09/11 19:00	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/06/11 23:58	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 08:16	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 08:16	1
Methanol	1000	U	1000	830	ug/L			05/08/11 08:16	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**740**		100	50	ug/L		05/03/11 17:33	05/05/11 22:13	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:13	1
Arsenic	**2.0**	**J**	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 22:13	1
Barium	**33**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 22:13	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 22:13	1
Cadmium	**0.39**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 22:13	1
Calcium	**280000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:13	1
Chromium	**2.6**	**J**	5.0	2.5	ug/L		05/03/11 17:33	05/05/11 22:13	1
Cobalt	**65**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 22:13	1
Copper	**2.6**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 22:13	1
Iron	**170000**		100	44	ug/L		05/03/11 17:33	05/05/11 22:13	1
Lead	**0.73**	**J**	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 22:13	1
Magnesium	**83000**		250	100	ug/L		05/03/11 17:33	05/05/11 22:13	1
Manganese	**13000**		20	8.0	ug/L		05/03/11 17:33	05/06/11 10:22	4
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 22:13	1
Nickel	**12**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:13	1
Potassium	**6500**		1000	330	ug/L		05/03/11 17:33	05/05/11 22:13	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 22:13	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 22:13	1
Sodium	**330000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:13	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 22:13	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:33	05/05/11 22:13	1
Zinc	**22**		20	8.4	ug/L		05/03/11 17:33	05/05/11 22:13	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: WWL-3L
Date Collected: 04/27/11 16:25
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100000**		20000	3600	ug/L			05/14/11 13:05	20
Nitrogen, Kjeldahl	**1300**		200	150	ug/L		05/11/11 19:55	05/12/11 15:48	1
Nitrate as N	**41**	J	50	10	ug/L			04/28/11 17:24	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:24	1
Sulfate	**440000**		100000	50000	ug/L			05/13/11 14:40	20
Total Organic Carbon	**5100**		1000	500	ug/L			05/13/11 16:20	1

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	50	ug/L			05/04/11 02:24	10
Acetonitrile	400	U	400	100	ug/L			05/04/11 02:24	10
Acrolein	200	U	200	74	ug/L			05/04/11 02:24	10
Acrylonitrile	200	U	200	72	ug/L			05/04/11 02:24	10
Allyl chloride	10	U	10	2.0	ug/L			05/04/11 02:24	10
Benzene	10	U	10	2.5	ug/L			05/04/11 02:24	10
Benzyl chloride	10	U	10	10	ug/L			05/04/11 02:24	10
Bromodichloromethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
Bromoform	10	U	10	5.0	ug/L			05/04/11 02:24	10
Bromomethane	10	U	10	8.0	ug/L			05/04/11 02:24	10
2-Butanone	100	U	100	10	ug/L			05/04/11 02:24	10
Carbon disulfide	20	U	20	6.0	ug/L			05/04/11 02:24	10
Carbon tetrachloride	10	U	10	5.0	ug/L			05/04/11 02:24	10
Chlorobenzene	10	U	10	2.5	ug/L			05/04/11 02:24	10
Chloroethane	10	U	10	10	ug/L			05/04/11 02:24	10
Chloroform	10	U	10	1.4	ug/L			05/04/11 02:24	10
Chloromethane	10	U	10	3.3	ug/L			05/04/11 02:24	10
Chloroprene	10	U	10	3.0	ug/L			05/04/11 02:24	10
cis-1,2-Dichloroethene	10	U	10	1.5	ug/L			05/04/11 02:24	10
cis-1,3-Dichloropropene	10	U	10	1.1	ug/L			05/04/11 02:24	10
Dibromochloromethane	10	U	10	1.0	ug/L			05/04/11 02:24	10
1,2-Dibromo-3-Chloropropane	10	U	10	4.4	ug/L			05/04/11 02:24	10
1,2-Dibromoethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
Dibromomethane	10	U	10	2.0	ug/L			05/04/11 02:24	10
Dichlorodifluoromethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
1,2-Dichloroethane	10	U	10	1.0	ug/L			05/04/11 02:24	10
1,1-Dichloroethene	10	U	10	1.1	ug/L			05/04/11 02:24	10
1,2-Dichloropropane	10	U	10	1.3	ug/L			05/04/11 02:24	10
Diethyl ether	**810**		100	10	ug/L			05/04/11 02:24	10
Ethylbenzene	10	U	10	1.1	ug/L			05/04/11 02:24	10
Ethylene oxide	2000	U	2000	2000	ug/L			05/04/11 02:24	10
Ethyl methacrylate	10	U	10	2.5	ug/L			05/04/11 02:24	10
2-Hexanone	100	U	100	10	ug/L			05/04/11 02:24	10
Iodomethane	50	U	50	10	ug/L			05/04/11 02:24	10
Isobutyl alcohol	400	U R	400	110	ug/L		ICL	05/04/11 02:24	10
Methacrylonitrile	200	U	200	33	ug/L			05/04/11 02:24	10
Methylene Chloride	50	U	50	10	ug/L			05/04/11 02:24	10
Methyl methacrylate	10	U	10	4.8	ug/L			05/04/11 02:24	10
4-Methyl-2-pentanone (MIBK)	100	U	100	10	ug/L			05/04/11 02:24	10
Methyl tert-butyl ether	100	U	100	2.0	ug/L			05/04/11 02:24	10
n-Heptane	10	U	10	4.2	ug/L			05/04/11 02:24	10
Pentachloroethane	50	U	50	12	ug/L			05/04/11 02:24	10
Propionitrile	200	U	200	46	ug/L			05/04/11 02:24	10
Propylene oxide	2000	U	2000	2000	ug/L			05/04/11 02:24	10
Styrene	10	U	10	1.1	ug/L			05/04/11 02:24	10
t-Butanol	**30**	**J**	50	26	ug/L			05/04/11 02:24	10
1,1,1,2-Tetrachloroethane	10	U	10	3.3	ug/L			05/04/11 02:24	10
1,1,2,2-Tetrachloroethane	10	U	10	1.8	ug/L			05/04/11 02:24	10

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	10	U	10	1.5	ug/L			05/04/11 02:24	10
Toluene	10	U	10	3.3	ug/L			05/04/11 02:24	10
trans-1,4-Dichloro-2-butene	20	U	20	5.0	ug/L			05/04/11 02:24	10
trans-1,2-Dichloroethene	10	U	10	2.0	ug/L			05/04/11 02:24	10
trans-1,3-Dichloropropene	10	U	10	2.1	ug/L			05/04/11 02:24	10
1,2,3-Trichlorobenzene	10	U	10	3.5	ug/L			05/04/11 02:24	10
1,1,1-Trichloroethane	10	U	10	5.0	ug/L			05/04/11 02:24	10
1,1,2-Trichloroethane	10	U	10	1.3	ug/L			05/04/11 02:24	10
Trichloroethylene	10	U	10	1.3	ug/L			05/04/11 02:24	10
Trichlorofluoromethane	10	U	10	2.5	ug/L			05/04/11 02:24	10
1,2,3-Trichloropropane	10	U	10	4.1	ug/L			05/04/11 02:24	10
Vinyl acetate	20	U	20	2.8	ug/L			05/04/11 02:24	10
Vinyl chloride	10	U	10	1.8	ug/L			05/04/11 02:24	10
Xylenes, Total	20	U	20	2.0	ug/L			05/04/11 02:24	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 02:24*	*10*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*05/04/11 02:24*	*10*
Dibromofluoromethane	*96*		*70 - 130*		*05/04/11 02:24*	*10*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/04/11 02:24*	*10*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U H	250	50	ug/L			05/24/11 05:05	10
Acetonitrile	400	U H	400	100	ug/L			05/24/11 05:05	10
Acrolein	200	U H	200	74	ug/L			05/24/11 05:05	10
Acrylonitrile	200	U H	200	72	ug/L			05/24/11 05:05	10
Allyl chloride	10	U H	10	2.0	ug/L			05/24/11 05:05	10
Benzene	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Bromodichloromethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Bromoform	10	U H	10	5.0	ug/L			05/24/11 05:05	10
Bromomethane	10	U H	10	8.0	ug/L			05/24/11 05:05	10
2-Butanone	100	U H	100	10	ug/L			05/24/11 05:05	10
Carbon disulfide	20	U H	20	6.0	ug/L			05/24/11 05:05	10
Carbon tetrachloride	10	U H	10	5.0	ug/L			05/24/11 05:05	10
Chlorobenzene	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Chloroethane	10	U H	10	10	ug/L			05/24/11 05:05	10
Chloroform	10	U H	10	1.4	ug/L			05/24/11 05:05	10
Chloromethane	10	U H	10	3.3	ug/L			05/24/11 05:05	10
Chloroprene	10	U H	10	3.0	ug/L			05/24/11 05:05	10
cis-1,2-Dichloroethene	10	U H	10	1.5	ug/L			05/24/11 05:05	10
cis-1,3-Dichloropropene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
Dibromochloromethane	10	U H	10	1.0	ug/L			05/24/11 05:05	10
1,2-Dibromo-3-Chloropropane	10	U H	10	4.4	ug/L			05/24/11 05:05	10
1,2-Dibromoethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
Dibromomethane	10	U H	10	2.0	ug/L			05/24/11 05:05	10
Dichlorodifluoromethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
1,1-Dichloroethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
1,2-Dichloroethane	10	U H	10	1.0	ug/L			05/24/11 05:05	10

Report initial

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
1,2-Dichloropropane	10	U H	10	1.3	ug/L			05/24/11 05:05	10
Diethyl ether	**780**	**H**	100	10	ug/L			05/24/11 05:05	10
Ethylbenzene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
Ethyl methacrylate	10	U H	10	2.5	ug/L			05/24/11 05:05	10
2-Hexanone	100	U H	100	10	ug/L			05/24/11 05:05	10
Iodomethane	50	U H	50	10	ug/L			05/24/11 05:05	10
Isobutyl alcohol	400	U H	400	110	ug/L			05/24/11 05:05	10
Methacrylonitrile	200	U H	200	33	ug/L			05/24/11 05:05	10
Methylene Chloride	50	U H	50	10	ug/L			05/24/11 05:05	10
Methyl methacrylate	10	U H	10	4.8	ug/L			05/24/11 05:05	10
4-Methyl-2-pentanone (MIBK)	100	U H	100	10	ug/L			05/24/11 05:05	10
Methyl tert-butyl ether	100	U H	100	2.0	ug/L			05/24/11 05:05	10
n-Heptane	10	U H	10	4.2	ug/L			05/24/11 05:05	10
Pentachloroethane	50	U H	50	12	ug/L			05/24/11 05:05	10
Propionitrile	200	U H	200	46	ug/L			05/24/11 05:05	10
Styrene	10	U H	10	1.1	ug/L			05/24/11 05:05	10
t-Butanol	50	U H	50	26	ug/L			05/24/11 05:05	10
1,1,1,2-Tetrachloroethane	10	U H	10	3.3	ug/L			05/24/11 05:05	10
1,1,2,2-Tetrachloroethane	10	U H	10	1.8	ug/L			05/24/11 05:05	10
Tetrachloroethene	10	U H	10	1.5	ug/L			05/24/11 05:05	10
Toluene	10	U H	10	3.3	ug/L			05/24/11 05:05	10
trans-1,4-Dichloro-2-butene	20	U H	20	5.0	ug/L			05/24/11 05:05	10
trans-1,2-Dichloroethene	10	U H	10	2.0	ug/L			05/24/11 05:05	10
trans-1,3-Dichloropropene	10	U H	10	2.1	ug/L			05/24/11 05:05	10
1,2,3-Trichlorobenzene	10	U H	10	3.5	ug/L			05/24/11 05:05	10
1,1,1-Trichloroethane	10	U H	10	5.0	ug/L			05/24/11 05:05	10
1,1,2-Trichloroethane	10	U H	10	1.3	ug/L			05/24/11 05:05	10
Trichloroethylene	10	U H	10	1.3	ug/L			05/24/11 05:05	10
Trichlorofluoromethane	10	U H	10	2.5	ug/L			05/24/11 05:05	10
1,2,3-Trichloropropane	10	U H	10	4.1	ug/L			05/24/11 05:05	10
Vinyl acetate	20	U H	20	2.8	ug/L			05/24/11 05:05	10
Vinyl chloride	10	U H	10	1.8	ug/L			05/24/11 05:05	10
Xylenes, Total	20	U H	20	2.0	ug/L			05/24/11 05:05	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/L*					*05/24/11 05:05*	*10*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*05/24/11 05:05*	*10*
Dibromofluoromethane	*97*		*70 - 130*		*05/24/11 05:05*	*10*
Toluene-d8 (Surr)	*107*		*70 - 130*		*05/24/11 05:05*	*10*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 19:27	1

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 19:27	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 19:27	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,4-Dichlorobenzene	**0.11**	~~J~~ B	0.96	0.096	ug/L	MBL	05/03/11 14:47	05/09/11 19:27	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dichlorophenol	0.96	U L	0.96	0.096	ug/L	BSL	05/03/11 14:47	05/09/11 19:27	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 19:27	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:27	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 19:27	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		05/03/11 14:47	05/09/11 19:27	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,6-Dinitrotoluene	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,4-Dioxane	**3.2**		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 19:27	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:27	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/03/11 14:47	05/09/11 19:27	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Methapyrilene	190	U	190	1.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Methyl parathion	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 19:27	1
3 & 4 Methylphenol	1.9	U L	1.9	0.64	ug/L	BSL	05/03/11 14:47	05/09/11 19:27	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/09/11 19:27	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 19:27	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.1	ug/L	ICL	05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
o-Toluidine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1

Client Sample ID: WWL-3U
Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:27	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 19:27	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 19:27	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 19:27	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 19:27	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 19:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*26*	*TAJ B*	*ug/L*		*3.98*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*0.67*	*TJ*	*ug/L*		*4.86*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*1.1*	*TJ*	*ug/L*		*4.95*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*6.8*	*TJ B*	*ug/L*		*5.03*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*1.2*	*TJ*	*ug/L*		*5.55*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*23*	*TJ*	*ug/L*		*6.10*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*11*	*TJ*	*ug/L*		*7.92*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*6.4*	*TJ*	*ug/L*		*9.53*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
Unknown	*2.0*	*TJ*	*ug/L*		*10.97*		*05/03/11 14:47*	*05/09/11 19:27*	*1*
(Carbethoxyethylidine)triphenylphosphora	*12*	*TJ N*	*ug/L*		*14.00*	*5717-37-3*	*05/03/11 14:47*	*05/09/11 19:27*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
2-Fluorophenol	*62*		*25 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
Nitrobenzene-d5	*65*		*32 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
Phenol-d5	*57*		*27 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
Terphenyl-d14	*66*		*36 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*
2,4,6-Tribromophenol	*77*		*30 - 130*	*05/03/11 14:47*	*05/09/11 19:27*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/07/11 00:22	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 08:40	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 08:40	1
Methanol	1000	U	1000	830	ug/L			05/08/11 08:40	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**810**		100	50	ug/L		05/03/11 17:33	05/05/11 22:20	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:20	1
Arsenic	**1.8**	**J**	2.5	1.3	ug/L		05/03/11 17:33	05/05/11 22:20	1
Barium	**35**		5.0	1.4	ug/L		05/03/11 17:33	05/05/11 22:20	1

Client Sample ID: WWL-3U

Date Collected: 04/27/11 14:30
Date Received: 04/28/11 10:03

Lab Sample ID: 680-67794-11

Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:33	05/05/11 22:20	1
Cadmium	**0.40**	**J**	0.50	0.13	ug/L		05/03/11 17:33	05/05/11 22:20	1
Calcium	**270000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:20	1
Chromium	**5.2**		5.0	2.5	ug/L		05/03/11 17:33	05/05/11 22:20	1
Cobalt	**48**		0.50	0.12	ug/L		05/03/11 17:33	05/05/11 22:20	1
Copper	**1.9**	**J**	5.0	1.1	ug/L		05/03/11 17:33	05/05/11 22:20	1
Iron	**72000**		100	44	ug/L		05/03/11 17:33	05/05/11 22:20	1
Lead	**0.91**	**J**	1.5	0.50	ug/L		05/03/11 17:33	05/05/11 22:20	1
Magnesium	**82000**		250	100	ug/L		05/03/11 17:33	05/05/11 22:20	1
Manganese	**8800**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:20	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:33	05/05/11 22:20	1
Nickel	**7.0**		5.0	2.0	ug/L		05/03/11 17:33	05/05/11 22:20	1
Potassium	**7900**		1000	330	ug/L		05/03/11 17:33	05/05/11 22:20	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:33	05/05/11 22:20	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:33	05/05/11 22:20	1
Sodium	**170000**		500	170	ug/L		05/03/11 17:33	05/05/11 22:20	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:33	05/05/11 22:20	1
Vanadium	**3.5**	**J**	10	3.2	ug/L		05/03/11 17:33	05/05/11 22:20	1
Zinc	**31**		20	8.4	ug/L		05/03/11 17:33	05/05/11 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**720000**		10000	1800	ug/L			05/14/11 13:05	10
Nitrogen, Kjeldahl	**510**		200	150	ug/L		05/11/11 19:55	05/12/11 15:57	1
Nitrate as N	50	U	50	10	ug/L			04/28/11 17:25	1
Nitrite as N	50	U	50	10	ug/L			04/28/11 17:25	1
Sulfate	**330000**		50000	25000	ug/L			05/13/11 14:25	10
Total Organic Carbon	**3700**		1000	500	ug/L			05/13/11 16:36	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.5**	**J**	25	5.0	ug/L			05/05/11 16:27	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 16:27	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 16:27	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 16:27	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 16:27	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 16:27	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 16:27	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 16:27	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 16:27	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 16:27	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 16:27	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 16:27	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 16:27	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:27	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 16:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 16:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 16:27	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 16:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:27	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 16:27	1
Diethyl ether	**10**		10	1.0	ug/L			05/05/11 16:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 16:27	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 16:27	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 16:27	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L		RL	05/05/11 16:27	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 16:27	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 16:27	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 16:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 16:27	1
Methyl tert-butyl ether	**0.68**	**J**	10	0.20	ug/L			05/05/11 16:27	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 16:27	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 16:27	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 16:27	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 16:27	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 16:27	1
t-Butanol	~~150~~	~~E~~	5.0	2.6	ug/L			05/05/11 16:27	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 16:27	1

* Report from dilution

TestAmerica Savannah

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 16:27	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 16:27	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 16:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 16:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 16:27	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 16:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 16:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 16:27	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 16:27	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:27	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 16:27	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 16:27	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 16:27	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 16:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 16:27*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/05/11 16:27*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/05/11 16:27*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/11 16:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/05/11 22:26	5
Acetonitrile	200	U	200	50	ug/L			05/05/11 22:26	5
Acrolein	100	U	100	37	ug/L			05/05/11 22:26	5
Acrylonitrile	100	U	100	36	ug/L			05/05/11 22:26	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
Benzene	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/05/11 22:26	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/05/11 22:26	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/05/11 22:26	5
2-Butanone	50	U	50	5.0	ug/L			05/05/11 22:26	5
Carbon disulfide	10	U	10	3.0	ug/L			05/05/11 22:26	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/05/11 22:26	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/05/11 22:26	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/05/11 22:26	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/05/11 22:26	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/05/11 22:26	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 22:26	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/05/11 22:26	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/05/11 22:26	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/05/11 22:26	5
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/05/11 22:26	5
Diethyl ether	**10**	**J D**	50	5.0	ug/L			05/05/11 22:26	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/05/11 22:26	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
2-Hexanone	50	U	50	5.0	ug/L			05/05/11 22:26	5
Iodomethane	25	U	25	5.0	ug/L			05/05/11 22:26	5
Isobutyl alcohol	200	U	200	55	ug/L			05/05/11 22:26	5
Methacrylonitrile	100	U	100	16	ug/L			05/05/11 22:26	5
Methylene Chloride	25	U	25	5.0	ug/L			05/05/11 22:26	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/05/11 22:26	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/05/11 22:26	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/05/11 22:26	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/05/11 22:26	5
Pentachloroethane	25	U	25	6.0	ug/L			05/05/11 22:26	5
Propionitrile	100	U	100	23	ug/L			05/05/11 22:26	5
Propylene oxide	1000	U	1000	1000	ug/L			05/05/11 22:26	5
Styrene	5.0	U	5.0	0.55	ug/L			05/05/11 22:26	5
t-Butanol	**160**	**D**	25	13	ug/L			05/05/11 22:26	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/05/11 22:26	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/05/11 22:26	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 22:26	5
Toluene	5.0	U	5.0	1.6	ug/L			05/05/11 22:26	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/05/11 22:26	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/05/11 22:26	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/05/11 22:26	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/05/11 22:26	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/05/11 22:26	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/05/11 22:26	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 22:26	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/05/11 22:26	5
Vinyl acetate	10	U	10	1.4	ug/L			05/05/11 22:26	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/05/11 22:26	5
Xylenes, Total	10	U	10	1.0	ug/L			05/05/11 22:26	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 22:26*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 22:26*	*5*
Dibromofluoromethane	*97*		*70 - 130*		*05/05/11 22:26*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 22:26*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/07/11 00:46	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 09:04	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 09:04	1

Client Sample ID: RAB-MW2
Date Collected: 04/28/11 10:05
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-1
Matrix: Water

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	1000	U	1000	830	ug/L			05/08/11 09:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	470		100	50	ug/L		05/03/11 17:39	05/06/11 01:08	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:08	1
Arsenic	5.6		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:08	1
Barium	46		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:08	1
Beryllium	0.22	J	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:08	1
Cadmium	0.23	J	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:08	1
Calcium	85000		500	170	ug/L		05/03/11 17:39	05/06/11 01:08	1
Chromium	6.7		5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:08	1
Cobalt	120	J	0.50	0.12	ug/L	SA	05/03/11 17:39	05/06/11 01:08	1
Copper	6.2		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:08	1
Iron	96000		100	44	ug/L		05/03/11 17:39	05/06/11 01:08	1
Lead	0.68	J	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:08	1
Magnesium	160000		250	100	ug/L		05/03/11 17:39	05/06/11 01:08	1
Manganese	12000		10	4.0	ug/L		05/03/11 17:39	05/06/11 09:33	2
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:08	1
Nickel	68		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:08	1
Potassium	2200		1000	330	ug/L		05/03/11 17:39	05/06/11 01:08	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:08	1
Silver	0.19	J	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:08	1
Sodium	490000		1000	340	ug/L		05/03/11 17:39	05/06/11 09:33	2
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:08	1
Vanadium	3.9	J	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:08	1
Zinc	25		20	8.4	ug/L		05/03/11 17:39	05/06/11 01:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530000		10000	1800	ug/L			05/17/11 11:37	10
Nitrogen, Kjeldahl	1500		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	390		50	10	ug/L			04/29/11 17:35	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:35	1
Sulfate	1200000		200000	100000	ug/L			05/17/11 14:14	40
Total Organic Carbon	12000		1000	500	ug/L			05/17/11 12:55	1

Client Sample ID: RAB-MW4
Date Collected: 04/28/11 11:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 15:54	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 15:54	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 15:54	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 15:54	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 15:54	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 15:54	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 15:54	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 15:54	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 15:54	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 15:54	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 15:54	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 15:54	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 15:54	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:54	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 15:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 15:54	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 15:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:54	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 15:54	1
Diethyl ether	**4.3**	**J**	10	1.0	ug/L			05/04/11 15:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 15:54	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 15:54	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 15:54	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/04/11 15:54	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 15:54	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 15:54	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 15:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 15:54	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 15:54	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 15:54	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 15:54	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 15:54	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 15:54	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 15:54	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 15:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 15:54	1

Client Sample ID: RAB-MW4
Date Collected: 04/28/11 11:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:54	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 15:54	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 15:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 15:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 15:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 15:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 15:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 15:54	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 15:54	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:54	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 15:54	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 15:54	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 15:54	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 15:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 15:54*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/04/11 15:54*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 15:54*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 15:54*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/07/11 01:09	1
Ethanol	1000	U	1000	330	ug/L			05/08/11 09:27	1
Isopropanol	1000	U	1000	300	ug/L			05/08/11 09:27	1
Methanol	1000	U	1000	830	ug/L			05/08/11 09:27	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2600**		100	50	ug/L		05/03/11 17:39	05/05/11 23:16	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:16	1
Arsenic	**1.3**	**J**	2.5	1.3	ug/L		05/03/11 17:39	05/05/11 23:16	1
Barium	**18**		5.0	1.4	ug/L		05/03/11 17:39	05/05/11 23:16	1
Beryllium	**0.19**	**J**	0.50	0.15	ug/L		05/03/11 17:39	05/05/11 23:16	1
Cadmium	**0.50**		0.50	0.13	ug/L		05/03/11 17:39	05/05/11 23:16	1
Calcium	**250000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:16	1
Chromium	**8.3**		5.0	2.5	ug/L		05/03/11 17:39	05/05/11 23:16	1
Cobalt	**2.5**	J	0.50	0.12	ug/L	SJ	05/03/11 17:39	05/05/11 23:16	1
Copper	**4.9**	**J**	5.0	1.1	ug/L		05/03/11 17:39	05/05/11 23:16	1
Iron	**3000**		100	44	ug/L		05/03/11 17:39	05/05/11 23:16	1
Lead	**1.5**		1.5	0.50	ug/L		05/03/11 17:39	05/05/11 23:16	1
Magnesium	**220000**		250	100	ug/L		05/03/11 17:39	05/05/11 23:16	1
Manganese	**610**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:16	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/05/11 23:16	1
Nickel	**51**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:16	1
Potassium	**5100**		1000	330	ug/L		05/03/11 17:39	05/05/11 23:16	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/05/11 23:16	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/05/11 23:16	1

Client Sample ID: RAB-MW4
Date Collected: 04/28/11 11:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**360000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:16	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/05/11 23:16	1
Vanadium	**7.4**	**J**	10	3.2	ug/L		05/03/11 17:39	05/05/11 23:16	1
Zinc	**22**		20	8.4	ug/L		05/03/11 17:39	05/05/11 23:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350000**		5000	900	ug/L			05/17/11 11:24	5
Nitrogen, Kjeldahl	**250**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:38	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:38	1
Sulfate	**1600000**		500000	250000	ug/L			05/17/11 14:14	100
Total Organic Carbon	**2600**		1000	500	ug/L			05/17/11 13:12	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	30		25	5.0	ug/L			05/05/11 16:56	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 16:56	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 16:56	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 16:56	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 16:56	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 16:56	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 16:56	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 16:56	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 16:56	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 16:56	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 16:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 16:56	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 16:56	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:56	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 16:56	1
cis-1,2-Dichloroethene	0.20	J	1.0	0.15	ug/L			05/05/11 16:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 16:56	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 16:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 16:56	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 16:56	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 16:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 16:56	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 16:56	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 16:56	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ICL		05/05/11 16:56	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 16:56	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 16:56	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 16:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 16:56	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 16:56	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 16:56	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 16:56	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 16:56	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 16:56	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 16:56	1
t-Butanol ✱	~~100000~~ E		5.0	2.6	ug/L			05/05/11 16:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 16:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 16:56	1

N

✱ Report from dilution

Client Sample ID: Field Dup

Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.3**		1.0	0.15	ug/L			05/05/11 16:56	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 16:56	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 16:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 16:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 16:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 16:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 16:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 16:56	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 16:56	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 16:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 16:56	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 16:56	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 16:56	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 16:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Carbon dioxide Air peak	*2800*	*T J N*	*ug/L*		*1.03*	*124-38-9*		*05/05/11 16:56*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/05/11 16:56*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*05/05/11 16:56*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/05/11 16:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100000	U	100000	20000	ug/L			05/05/11 23:12	4000
Acetonitrile	160000	U	160000	40000	ug/L			05/05/11 23:12	4000
Acrolein	80000	U	80000	30000	ug/L			05/05/11 23:12	4000
Acrylonitrile	80000	U	80000	29000	ug/L			05/05/11 23:12	4000
Allyl chloride	4000	U	4000	800	ug/L			05/05/11 23:12	4000
Benzene	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Benzyl chloride	4000	U	4000	4000	ug/L			05/05/11 23:12	4000
Bromodichloromethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Bromoform	4000	U	4000	2000	ug/L			05/05/11 23:12	4000
Bromomethane	4000	U	4000	3200	ug/L			05/05/11 23:12	4000
2-Butanone	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Carbon disulfide	8000	U	8000	2400	ug/L			05/05/11 23:12	4000
Carbon tetrachloride	4000	U	4000	2000	ug/L			05/05/11 23:12	4000
Chlorobenzene	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Chloroethane	4000	U	4000	4000	ug/L			05/05/11 23:12	4000
Chloroform	4000	U	4000	560	ug/L			05/05/11 23:12	4000
Chloromethane	4000	U	4000	1300	ug/L			05/05/11 23:12	4000
Chloroprene	4000	U	4000	1200	ug/L			05/05/11 23:12	4000
cis-1,2-Dichloroethene	4000	U	4000	600	ug/L			05/05/11 23:12	4000
cis-1,3-Dichloropropene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
Dibromochloromethane	4000	U	4000	400	ug/L			05/05/11 23:12	4000
1,2-Dibromo-3-Chloropropane	4000	U	4000	1800	ug/L			05/05/11 23:12	4000
1,2-Dibromoethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
Dibromomethane	4000	U	4000	800	ug/L			05/05/11 23:12	4000
Dichlorodifluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
1,1-Dichloroethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	4000	U	4000	400	ug/L			05/05/11 23:12	4000
1,1-Dichloroethene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
1,2-Dichloropropane	4000	U	4000	520	ug/L			05/05/11 23:12	4000
Diethyl ether	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Ethylbenzene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
Ethylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:12	4000
Ethyl methacrylate	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
2-Hexanone	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Iodomethane	20000	U	20000	4000	ug/L			05/05/11 23:12	4000
Isobutyl alcohol	160000	U	160000	44000	ug/L			05/05/11 23:12	4000
Methacrylonitrile	80000	U	80000	13000	ug/L			05/05/11 23:12	4000
Methylene Chloride	20000	U	20000	4000	ug/L			05/05/11 23:12	4000
Methyl methacrylate	4000	U	4000	1900	ug/L			05/05/11 23:12	4000
4-Methyl-2-pentanone (MIBK)	40000	U	40000	4000	ug/L			05/05/11 23:12	4000
Methyl tert-butyl ether	40000	U	40000	800	ug/L			05/05/11 23:12	4000
n-Heptane	4000	U	4000	1700	ug/L			05/05/11 23:12	4000
Pentachloroethane	20000	U	20000	4800	ug/L			05/05/11 23:12	4000
Propionitrile	80000	U	80000	18000	ug/L			05/05/11 23:12	4000
Propylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:12	4000
Styrene	4000	U	4000	440	ug/L			05/05/11 23:12	4000
t-Butanol	**94000**	D	20000	10000	ug/L			05/05/11 23:12	4000
1,1,1,2-Tetrachloroethane	4000	U	4000	1300	ug/L			05/05/11 23:12	4000
1,1,2,2-Tetrachloroethane	4000	U	4000	720	ug/L			05/05/11 23:12	4000
Tetrachloroethene	4000	U	4000	600	ug/L			05/05/11 23:12	4000
Toluene	4000	U	4000	1300	ug/L			05/05/11 23:12	4000
trans-1,4-Dichloro-2-butene	8000	U	8000	2000	ug/L			05/05/11 23:12	4000
trans-1,2-Dichloroethene	4000	U	4000	800	ug/L			05/05/11 23:12	4000
trans-1,3-Dichloropropene	4000	U	4000	840	ug/L			05/05/11 23:12	4000
1,2,3-Trichlorobenzene	4000	U	4000	1400	ug/L			05/05/11 23:12	4000
1,1,1-Trichloroethane	4000	U	4000	2000	ug/L			05/05/11 23:12	4000
1,1,2-Trichloroethane	4000	U	4000	520	ug/L			05/05/11 23:12	4000
Trichloroethylene	4000	U	4000	520	ug/L			05/05/11 23:12	4000
Trichlorofluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:12	4000
1,2,3-Trichloropropane	4000	U	4000	1600	ug/L			05/05/11 23:12	4000
Vinyl acetate	8000	U	8000	1100	ug/L			05/05/11 23:12	4000
Vinyl chloride	4000	U	4000	720	ug/L			05/05/11 23:12	4000
Xylenes, Total	8000	U	8000	800	ug/L			05/05/11 23:12	4000

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 23:12*	*4000*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/05/11 23:12*	*4000*
Dibromofluoromethane	*98*		*70 - 130*		*05/05/11 23:12*	*4000*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/11 23:12*	*4000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1

Report

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/03/11 14:47	05/09/11 22:37	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/09/11 22:37	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 22:37	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,4-Dichlorobenzene	**0.10**	**JB**	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 22:37	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/03/11 14:47	05/09/11 22:37	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/09/11 22:37	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,4-Dioxane	**7.6**		1.9	0.29	ug/L		05/03/11 14:47	05/09/11 22:37	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 22:37	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachlorophene	470	U	470	24	ug/L		05/03/11 14:47	05/09/11 22:37	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/09/11 22:37	1
3 & 4 Methylphenol	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/09/11 22:37	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/03/11 14:47	05/09/11 22:37	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/09/11 22:37	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 22:37	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/03/11 14:47	05/09/11 22:37	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 22:37	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/09/11 22:37	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/09/11 22:37	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/03/11 14:47	05/09/11 22:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*20*	*J B*	*ug/L*		*6.33*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*26*	*J*	*ug/L*		*6.43*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*84*	*J*	*ug/L*		*7.51*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*28*	*J*	*ug/L*		*7.56*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*34*	*J*	*ug/L*		*7.59*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*25*	*J*	*ug/L*		*7.81*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*28*	*J*	*ug/L*		*7.93*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*31*	*J*	*ug/L*		*9.55*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*36*	*J*	*ug/L*		*9.58*		*05/03/11 14:47*	*05/09/11 22:37*	*1*
Unknown	*110*	*J*	*ug/L*		*9.70*		*05/03/11 14:47*	*05/09/11 22:37*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*34 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
2-Fluorophenol	*56*		*25 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
Nitrobenzene-d5	*68*		*32 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
Phenol-d5	*62*		*27 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
Terphenyl-d14	*55*		*36 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*
2,4,6-Tribromophenol	*71*		*30 - 130*	*05/03/11 14:47*	*05/09/11 22:37*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 21:54	1
Ethanol	1000	U	1000	330	ug/L	HT		05/12/11 20:24	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 20:24	1
Methanol	1000	U	1000	830	ug/L			05/12/11 20:24	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**100**		100	50	ug/L		05/03/11 17:39	05/06/11 01:29	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:29	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Dup
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.7**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:29	1
Barium	**81**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:29	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:29	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:29	1
Calcium	**38000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:29	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:29	1
Cobalt	**14**	J	0.50	0.12	ug/L	SD	05/03/11 17:39	05/06/11 01:29	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:29	1
Iron	**2800**		100	44	ug/L		05/03/11 17:39	05/06/11 01:29	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:29	1
Magnesium	**17000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:29	1
Manganese	**1700**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:29	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:29	1
Nickel	**19**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:29	1
Potassium	**1100**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:29	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:29	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:29	1
Sodium	**1100000**		5000	1700	ug/L		05/03/11 17:39	05/06/11 09:54	10
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:29	1
Vanadium	**4.0**	J	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:29	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:39	05/06/11 01:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250000**		5000	900	ug/L			05/17/11 11:24	5
Nitrogen, Kjeldahl	**2400**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**4300**		250	50	ug/L			04/29/11 18:17	5
Nitrite as N	250	U	250	50	ug/L			04/29/11 18:17	5
Sulfate	5000	U	5000	2500	ug/L			05/17/11 13:23	1
Total Organic Carbon	**73000**		1000	500	ug/L			05/17/11 13:31	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	34		25	5.0	ug/L			05/05/11 17:25	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 17:25	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 17:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 17:25	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 17:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 17:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 17:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 17:25	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 17:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 17:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 17:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 17:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 17:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 17:25	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 17:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 17:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 17:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 17:25	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 17:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 17:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 17:25	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 17:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 17:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 17:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 17:25	1
Isobutyl alcohol	40	U / R	40	11	ug/L			05/05/11 17:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 17:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 17:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 17:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 17:25	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 17:25	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 17:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 17:25	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 17:25	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 17:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 17:25	1
t-Butanol	~~100000~~	~~E~~	5.0	2.6	ug/L			05/05/11 17:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 17:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 17:25	1

sm 8/18/2011
IOL

☆ Repeat from dilution

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.30	J	1.0	0.15	ug/L			05/05/11 17:25	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 17:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 17:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 17:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 17:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 17:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 17:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 17:25	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 17:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 17:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 17:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 17:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 17:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 17:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.6*	*J N*	*ug/L*		*1.24*			*05/05/11 17:25*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/05/11 17:25*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*05/05/11 17:25*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/05/11 17:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100000	U	100000	20000	ug/L			05/05/11 23:35	4000
Acetonitrile	160000	U	160000	40000	ug/L			05/05/11 23:35	4000
Acrolein	80000	U	80000	30000	ug/L			05/05/11 23:35	4000
Acrylonitrile	80000	U	80000	29000	ug/L			05/05/11 23:35	4000
Allyl chloride	4000	U	4000	800	ug/L			05/05/11 23:35	4000
Benzene	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Benzyl chloride	4000	U	4000	4000	ug/L			05/05/11 23:35	4000
Bromodichloromethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Bromoform	4000	U	4000	2000	ug/L			05/05/11 23:35	4000
Bromomethane	4000	U	4000	3200	ug/L			05/05/11 23:35	4000
2-Butanone	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Carbon disulfide	8000	U	8000	2400	ug/L			05/05/11 23:35	4000
Carbon tetrachloride	4000	U	4000	2000	ug/L			05/05/11 23:35	4000
Chlorobenzene	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Chloroethane	4000	U	4000	4000	ug/L			05/05/11 23:35	4000
Chloroform	4000	U	4000	560	ug/L			05/05/11 23:35	4000
Chloromethane	4000	U	4000	1300	ug/L			05/05/11 23:35	4000
Chloroprene	4000	U	4000	1200	ug/L			05/05/11 23:35	4000
cis-1,2-Dichloroethene	4000	U	4000	600	ug/L			05/05/11 23:35	4000
cis-1,3-Dichloropropene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
Dibromochloromethane	4000	U	4000	400	ug/L			05/05/11 23:35	4000
1,2-Dibromo-3-Chloropropane	4000	U	4000	1800	ug/L			05/05/11 23:35	4000
1,2-Dibromoethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
Dibromomethane	4000	U	4000	800	ug/L			05/05/11 23:35	4000
Dichlorodifluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
1,1-Dichloroethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	4000	U	4000	400	ug/L			05/05/11 23:35	4000
1,1-Dichloroethene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
1,2-Dichloropropane	4000	U	4000	520	ug/L			05/05/11 23:35	4000
Diethyl ether	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Ethylbenzene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
Ethylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:35	4000
Ethyl methacrylate	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
2-Hexanone	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Iodomethane	20000	U	20000	4000	ug/L			05/05/11 23:35	4000
Isobutyl alcohol	160000	U	160000	44000	ug/L			05/05/11 23:35	4000
Methacrylonitrile	80000	U	80000	13000	ug/L			05/05/11 23:35	4000
Methylene Chloride	20000	U	20000	4000	ug/L			05/05/11 23:35	4000
Methyl methacrylate	4000	U	4000	1900	ug/L			05/05/11 23:35	4000
4-Methyl-2-pentanone (MIBK)	40000	U	40000	4000	ug/L			05/05/11 23:35	4000
Methyl tert-butyl ether	40000	U	40000	800	ug/L			05/05/11 23:35	4000
n-Heptane	4000	U	4000	1700	ug/L			05/05/11 23:35	4000
Pentachloroethane	20000	U	20000	4800	ug/L			05/05/11 23:35	4000
Propionitrile	80000	U	80000	18000	ug/L			05/05/11 23:35	4000
Propylene oxide	800000	U	800000	800000	ug/L			05/05/11 23:35	4000
Styrene	4000	U	4000	440	ug/L			05/05/11 23:35	4000
t-Butanol	**83000**	D	20000	10000	ug/L			05/05/11 23:35	4000
1,1,1,2-Tetrachloroethane	4000	U	4000	1300	ug/L			05/05/11 23:35	4000
1,1,2,2-Tetrachloroethane	4000	U	4000	720	ug/L			05/05/11 23:35	4000
Tetrachloroethene	4000	U	4000	600	ug/L			05/05/11 23:35	4000
Toluene	4000	U	4000	1300	ug/L			05/05/11 23:35	4000
trans-1,4-Dichloro-2-butene	8000	U	8000	2000	ug/L			05/05/11 23:35	4000
trans-1,2-Dichloroethene	4000	U	4000	800	ug/L			05/05/11 23:35	4000
trans-1,3-Dichloropropene	4000	U	4000	840	ug/L			05/05/11 23:35	4000
1,2,3-Trichlorobenzene	4000	U	4000	1400	ug/L			05/05/11 23:35	4000
1,1,1-Trichloroethane	4000	U	4000	2000	ug/L			05/05/11 23:35	4000
1,1,2-Trichloroethane	4000	U	4000	520	ug/L			05/05/11 23:35	4000
Trichloroethylene	4000	U	4000	520	ug/L			05/05/11 23:35	4000
Trichlorofluoromethane	4000	U	4000	1000	ug/L			05/05/11 23:35	4000
1,2,3-Trichloropropane	4000	U	4000	1600	ug/L			05/05/11 23:35	4000
Vinyl acetate	8000	U	8000	1100	ug/L			05/05/11 23:35	4000
Vinyl chloride	4000	U	4000	720	ug/L			05/05/11 23:35	4000
Xylenes, Total	8000	U	8000	800	ug/L			05/05/11 23:35	4000

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 23:35*	*4000*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 23:35*	*4000*
Dibromofluoromethane	*101*		*70 - 130*		*05/05/11 23:35*	*4000*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 23:35*	*4000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/09/11 23:04	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/09/11 23:04	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/09/11 23:04	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,4-Dichlorobenzene	0.15	JB B	0.96	0.096	ug/L	MB	05/03/11 14:47	05/09/11 23:04	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dichlorophenol	0.96	U L	0.96	0.096	ug/L	BSL	05/03/11 14:47	05/09/11 23:04	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/09/11 23:04	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 23:04	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L	BSL	05/03/11 14:47	05/09/11 23:04	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/03/11 14:47	05/09/11 23:04	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,4-Dioxane	6.8		1.9	0.30	ug/L		05/03/11 14:47	05/09/11 23:04	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 23:04	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachlorophene	480	U	480	24	ug/L		05/03/11 14:47	05/09/11 23:04	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/09/11 23:04	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/09/11 23:04	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/03/11 14:47	05/09/11 23:04	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/09/11 23:04	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/09/11 23:04	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
4-Nitroquinoline-1-oxide	1.9	R	1.9	1.1	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 23:04	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/09/11 23:04	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/09/11 23:04	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/09/11 23:04	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/09/11 23:04	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/09/11 23:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*21*	*J*	*ug/L*		*6.43*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*70*	*J*	*ug/L*		*7.51*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*24*	*J*	*ug/L*		*7.56*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*28*	*J*	*ug/L*		*7.59*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*22*	*J*	*ug/L*		*7.81*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*26*	*J*	*ug/L*		*7.92*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*45*	*J*	*ug/L*		*9.55*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*43*	*J*	*ug/L*		*9.58*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown	*160*	*J*	*ug/L*		*9.69*		*05/03/11 14:47*	*05/09/11 23:04*	*1*
Unknown Organic Acid	*20*	*J*	*ug/L*		*11.12*		*05/03/11 14:47*	*05/09/11 23:04*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*34 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
2-Fluorophenol	*48*		*25 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
Nitrobenzene-d5	*54*		*32 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
Phenol-d5	*53*		*27 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
Terphenyl-d14	*54*		*36 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*
2,4,6-Tribromophenol	*74*		*30 - 130*	*05/03/11 14:47*	*05/09/11 23:04*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 22:18	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 20:48	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 20:48	1
Methanol	1000	U	1000	830	ug/L			05/12/11 20:48	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**340**		100	50	ug/L		05/03/11 17:39	05/06/11 01:36	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:36	1

Client Sample ID: NAT-3
Date Collected: 04/28/11 10:45
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.1**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:36	1
Barium	**94**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:36	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:36	1
Cadmium	**0.36**	J	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:36	1
Calcium	**40000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:36	1
Chromium	**2.5**	J	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:36	1
Cobalt	**16**	J	0.50	0.12	ug/L		05/03/11 17:39	05/06/11 01:36	1
Copper	**1.2**	J	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:36	1
Iron	**3200**		100	44	ug/L		05/03/11 17:39	05/06/11 01:36	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:36	1
Magnesium	**18000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:36	1
Manganese	**1800**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:36	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:36	1
Nickel	**22**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:36	1
Potassium	**1300**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:36	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:36	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:36	1
Sodium	**1200000**		5000	1700	ug/L		05/03/11 17:39	05/06/11 10:01	10
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:36	1
Vanadium	**5.0**	J	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:36	1
Zinc	**20**		20	8.4	ug/L		05/03/11 17:39	05/06/11 01:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250000**		5000	900	ug/L			05/17/11 11:20	5
Nitrogen, Kjeldahl	**2900**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**400**		50	10	ug/L			04/29/11 17:41	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:41	1
Sulfate	5000	U	5000	2500	ug/L			05/17/11 13:23	1
Total Organic Carbon	**73000**		1000	500	ug/L			05/17/11 13:50	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**35**		25	5.0	ug/L			05/04/11 16:23	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 16:23	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 16:23	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 16:23	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 16:23	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 16:23	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 16:23	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 16:23	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 16:23	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 16:23	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 16:23	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 16:23	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 16:23	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 16:23	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 16:23	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.15	ug/L			05/04/11 16:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 16:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 16:23	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 16:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 16:23	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 16:23	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 16:23	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 16:23	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 16:23	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 16:23	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ICL		05/04/11 16:23	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 16:23	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 16:23	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 16:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 16:23	1
Methyl tert-butyl ether	**2.6**	**J**	10	0.20	ug/L			05/04/11 16:23	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 16:23	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 16:23	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 16:23	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 16:23	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 16:23	1
t-Butanol	☆ ~~24000~~	~~E~~	5.0	2.6	ug/L			05/04/11 16:23	1 N
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 16:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 16:23	1

☆ Report from dilution

TestAmerica Savannah

7/5/11

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 16:23	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 16:23	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 16:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 16:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 16:23	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 16:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 16:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 16:23	1
Trichloroethylene	**3.2**		1.0	0.13	ug/L			05/04/11 16:23	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 16:23	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 16:23	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 16:23	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 16:23	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 16:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*TJN*	*ug/L*		*2.39*		*33*	*05/04/11 16:23*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/04/11 16:23*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/04/11 16:23*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/04/11 16:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12000	U	12000	2500	ug/L			05/05/11 22:49	500
Acetonitrile	20000	U	20000	5000	ug/L			05/05/11 22:49	500
Acrolein	10000	U	10000	3700	ug/L			05/05/11 22:49	500
Acrylonitrile	10000	U	10000	3600	ug/L			05/05/11 22:49	500
Allyl chloride	500	U	500	100	ug/L			05/05/11 22:49	500
Benzene	500	U	500	120	ug/L			05/05/11 22:49	500
Benzyl chloride	500	U	500	500	ug/L			05/05/11 22:49	500
Bromodichloromethane	500	U	500	120	ug/L			05/05/11 22:49	500
Bromoform	500	U	500	250	ug/L			05/05/11 22:49	500
Bromomethane	500	U	500	400	ug/L			05/05/11 22:49	500
2-Butanone	5000	U	5000	500	ug/L			05/05/11 22:49	500
Carbon disulfide	1000	U	1000	300	ug/L			05/05/11 22:49	500
Carbon tetrachloride	500	U	500	250	ug/L			05/05/11 22:49	500
Chlorobenzene	500	U	500	120	ug/L			05/05/11 22:49	500
Chloroethane	500	U	500	500	ug/L			05/05/11 22:49	500
Chloroform	500	U	500	70	ug/L			05/05/11 22:49	500
Chloromethane	500	U	500	160	ug/L			05/05/11 22:49	500
Chloroprene	500	U	500	150	ug/L			05/05/11 22:49	500
cis-1,2-Dichloroethene	500	U	500	75	ug/L			05/05/11 22:49	500
cis-1,3-Dichloropropene	500	U	500	55	ug/L			05/05/11 22:49	500
Dibromochloromethane	500	U	500	50	ug/L			05/05/11 22:49	500
1,2-Dibromo-3-Chloropropane	500	U	500	220	ug/L			05/05/11 22:49	500
1,2-Dibromoethane	500	U	500	120	ug/L			05/05/11 22:49	500
Dibromomethane	500	U	500	100	ug/L			05/05/11 22:49	500
Dichlorodifluoromethane	500	U	500	120	ug/L			05/05/11 22:49	500
1,1-Dichloroethane	500	U	500	120	ug/L			05/05/11 22:49	500

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	500	U	500	50	ug/L			05/05/11 22:49	500
1,1-Dichloroethene	500	U	500	55	ug/L			05/05/11 22:49	500
1,2-Dichloropropane	500	U	500	65	ug/L			05/05/11 22:49	500
Diethyl ether	5000	U	5000	500	ug/L			05/05/11 22:49	500
Ethylbenzene	500	U	500	55	ug/L			05/05/11 22:49	500
Ethylene oxide	100000	U	100000	100000	ug/L			05/05/11 22:49	500
Ethyl methacrylate	500	U	500	120	ug/L			05/05/11 22:49	500
2-Hexanone	5000	U	5000	500	ug/L			05/05/11 22:49	500
Iodomethane	2500	U	2500	500	ug/L			05/05/11 22:49	500
Isobutyl alcohol	20000	U	20000	5500	ug/L			05/05/11 22:49	500
Methacrylonitrile	10000	U	10000	1600	ug/L			05/05/11 22:49	500
Methylene Chloride	2500	U	2500	500	ug/L			05/05/11 22:49	500
Methyl methacrylate	500	U	500	240	ug/L			05/05/11 22:49	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	500	ug/L			05/05/11 22:49	500
Methyl tert-butyl ether	5000	U	5000	100	ug/L			05/05/11 22:49	500
n-Heptane	500	U	500	210	ug/L			05/05/11 22:49	500
Pentachloroethane	2500	U	2500	600	ug/L			05/05/11 22:49	500
Propionitrile	10000	U	10000	2300	ug/L			05/05/11 22:49	500
Propylene oxide	100000	U	100000	100000	ug/L			05/05/11 22:49	500
Styrene	500	U	500	55	ug/L			05/05/11 22:49	500
t-Butanol	**18000**	**D**	2500	1300	ug/L			05/05/11 22:49	500
1,1,1,2-Tetrachloroethane	500	U	500	160	ug/L			05/05/11 22:49	500
1,1,2,2-Tetrachloroethane	500	U	500	90	ug/L			05/05/11 22:49	500
Tetrachloroethene	500	U	500	75	ug/L			05/05/11 22:49	500
Toluene	500	U	500	160	ug/L			05/05/11 22:49	500
trans-1,4-Dichloro-2-butene	1000	U	1000	250	ug/L			05/05/11 22:49	500
trans-1,2-Dichloroethene	500	U	500	100	ug/L			05/05/11 22:49	500
trans-1,3-Dichloropropene	500	U	500	100	ug/L			05/05/11 22:49	500
1,2,3-Trichlorobenzene	500	U	500	180	ug/L			05/05/11 22:49	500
1,1,1-Trichloroethane	500	U	500	250	ug/L			05/05/11 22:49	500
1,1,2-Trichloroethane	500	U	500	65	ug/L			05/05/11 22:49	500
Trichloroethylene	500	U	500	65	ug/L			05/05/11 22:49	500
Trichlorofluoromethane	500	U	500	120	ug/L			05/05/11 22:49	500
1,2,3-Trichloropropane	500	U	500	200	ug/L			05/05/11 22:49	500
Vinyl acetate	1000	U	1000	140	ug/L			05/05/11 22:49	500
Vinyl chloride	500	U	500	90	ug/L			05/05/11 22:49	500
Xylenes, Total	1000	U	1000	100	ug/L			05/05/11 22:49	500

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 22:49*	*500*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/05/11 22:49*	*500*
Dibromofluoromethane	*100*		*70 - 130*		*05/05/11 22:49*	*500*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/05/11 22:49*	*500*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/18/11 16:52	1
Aniline	1.9	U	1.9	0.94	ug/L		05/03/11 14:47	05/18/11 16:52	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Benzyl alcohol	0.96	U	0.96	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 16:52	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,4-Dichlorobenzene	**0.13**	J B	0.96	0.096	ug/L	MB	05/03/11 14:47	05/18/11 16:52	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L	BSL	05/03/11 14:47	05/18/11 16:52	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/18/11 16:52	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 16:52	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dimethylphenol	1.9	U	1.9	0.67	ug/L	BSL	05/03/11 14:47	05/18/11 16:52	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		05/03/11 14:47	05/18/11 16:52	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,6-Dinitrotoluene	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,4-Dioxane	**1.5**	J	1.9	0.30	ug/L		05/03/11 14:47	05/18/11 16:52	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 16:52	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/03/11 14:47	05/18/11 16:52	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Methapyrilene	190	U	190	1.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Methyl parathion	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/18/11 16:52	1
3 & 4 Methylphenol	1.9	U L	1.9	0.64	ug/L	BSL	05/03/11 14:47	05/18/11 16:52	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 16:52	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 16:52	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.1	ug/L	ICL	05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
o-Toluidine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1

Client Sample ID: NAT-2
Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phenol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/18/11 16:52	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
Sulfotepp	0.96	U	0.96	0.14	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 16:52	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 16:52	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 16:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*39*	*J*	*ug/L*		*5.52*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown Organic Acid	*190*	*J*	*ug/L*		*6.09*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*24*	*J*	*ug/L*		*7.80*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*6.7*	*J*	*ug/L*		*7.85*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*9.3*	*J*	*ug/L*		*7.88*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown Organic Acid	*19*	*J*	*ug/L*		*7.93*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*14*	*J*	*ug/L*		*8.11*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*7.9*	*J*	*ug/L*		*8.22*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*25*	*J*	*ug/L*		*9.85*		*05/03/11 14:47*	*05/18/11 16:52*	*1*
Unknown	*18*	*J*	*ug/L*		*9.97*		*05/03/11 14:47*	*05/18/11 16:52*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*34 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
2-Fluorophenol	*53*		*25 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
Nitrobenzene-d5	*56*		*32 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
Phenol-d5	*54*		*27 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
Terphenyl-d14	*60*		*36 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*
2,4,6-Tribromophenol	*77*		*30 - 130*	*05/03/11 14:47*	*05/18/11 16:52*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 22:42	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 21:12	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 21:12	1
Methanol ☆	~~1000000~~	~~E~~	1000	830	ug/L			05/12/11 21:12	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	4400000	~~HDL~~	50000	42000	ug/L			05/13/11 12:47	50

☆ Report from dilution

Client Sample ID: NAT-2

Date Collected: 04/28/11 12:20
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-5

Matrix: Water

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1200**		100	50	ug/L		05/03/11 17:39	05/06/11 01:43	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:43	1
Arsenic	**3.9**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:43	1
Barium	**53**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:43	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:43	1
Cadmium	**0.27**	J	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:43	1
Calcium	**20000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:43	1
Chromium	**3.5**	J	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:43	1
Cobalt	**3.8**	J	0.50	0.12	ug/L	SD	05/03/11 17:39	05/06/11 01:43	1
Copper	**1.6**	J	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:43	1
Iron	**6800**		100	44	ug/L		05/03/11 17:39	05/06/11 01:43	1
Lead	**0.74**	J	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:43	1
Magnesium	**11000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:43	1
Manganese	**160**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:43	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:43	1
Nickel	**4.4**	J	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:43	1
Potassium	**1700**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:43	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:43	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:43	1
Sodium	**440000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:43	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:43	1
Vanadium	**4.6**	J	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:43	1
Zinc	**17**	J	20	8.4	ug/L		05/03/11 17:39	05/06/11 01:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110000**		2000	360	ug/L			05/17/11 11:24	2
Nitrogen, Kjeldahl	**1900**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**530**		50	10	ug/L			04/29/11 17:42	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:42	1
Sulfate	**150000**		25000	12000	ug/L			05/17/11 13:59	5
Total Organic Carbon	**16000**		1000	500	ug/L			05/17/11 14:09	1

Client Sample ID: NAT-1
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 13:28	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 13:28	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 13:28	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 13:28	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 13:28	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 13:28	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 13:28	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 13:28	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 13:28	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 13:28	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 13:28	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 13:28	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 13:28	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:28	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 13:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 13:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 13:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 13:28	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 13:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 13:28	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 13:28	1
Diethyl ether	10	U	10	1.0	ug/L			05/05/11 13:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 13:28	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 13:28	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 13:28	1
Isobutyl alcohol	40	U R	40	11	ug/L			05/05/11 13:28	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 13:28	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 13:28	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 13:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 13:28	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 13:28	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 13:28	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 13:28	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 13:28	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 13:28	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 13:28	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/05/11 13:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 13:28	1

Client Sample ID: NAT-1
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 13:28	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 13:28	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 13:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 13:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 13:28	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 13:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 13:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 13:28	1
Trichloroethylene	**28**		1.0	0.13	ug/L			05/05/11 13:28	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:28	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 13:28	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 13:28	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 13:28	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 13:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.0*	*T J N*	*ug/L*		*1.58*			*05/05/11 13:28*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/05/11 13:28*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*05/05/11 13:28*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 13:28*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 23:06	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 21:35	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 21:35	1
Methanol	1000	U	1000	830	ug/L			05/12/11 21:35	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**680**		100	50	ug/L		05/03/11 17:39	05/05/11 23:44	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:44	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:39	05/05/11 23:44	1
Barium	**55**		5.0	1.4	ug/L		05/03/11 17:39	05/05/11 23:44	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/05/11 23:44	1
Cadmium	**0.63**		0.50	0.13	ug/L		05/03/11 17:39	05/05/11 23:44	1
Calcium	**91000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:44	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/05/11 23:44	1
Cobalt	**41**		0.50	0.12	ug/L		05/03/11 17:39	05/05/11 23:44	1
Copper	**3.8**	J	5.0	1.1	ug/L		05/03/11 17:39	05/05/11 23:44	1
Iron	**680**		100	44	ug/L		05/03/11 17:39	05/05/11 23:44	1
Lead	**1.3**	J	1.5	0.50	ug/L		05/03/11 17:39	05/05/11 23:44	1
Magnesium	**31000**		250	100	ug/L		05/03/11 17:39	05/05/11 23:44	1
Manganese	**2300**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:44	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/05/11 23:44	1
Nickel	**14**		5.0	2.0	ug/L		05/03/11 17:39	05/05/11 23:44	1
Potassium	**3900**		1000	330	ug/L		05/03/11 17:39	05/05/11 23:44	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/05/11 23:44	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/05/11 23:44	1

Client Sample ID: NAT-1
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**120000**		500	170	ug/L		05/03/11 17:39	05/05/11 23:44	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/05/11 23:44	1
Vanadium	**3.7**	**J**	10	3.2	ug/L		05/03/11 17:39	05/05/11 23:44	1
Zinc	**18**	**J**	20	8.4	ug/L		05/03/11 17:39	05/05/11 23:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78000**		1000	180	ug/L			05/17/11 10:45	1
Nitrogen, Kjeldahl	**350**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**13000**		1000	200	ug/L			04/29/11 18:20	20
Nitrite as N	1000	U	1000	200	ug/L			04/29/11 18:20	20
Sulfate	**340000**		50000	25000	ug/L			05/17/11 13:57	10
Total Organic Carbon	**1500**		1000	500	ug/L			05/17/11 14:29	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 17:20	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 17:20	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 17:20	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 17:20	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 17:20	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 17:20	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 17:20	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 17:20	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 17:20	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 17:20	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 17:20	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 17:20	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 17:20	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 17:20	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 17:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 17:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 17:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 17:20	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 17:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 17:20	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 17:20	1
Diethyl ether	**1.8**	**J**	10	1.0	ug/L			05/04/11 17:20	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 17:20	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 17:20	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 17:20	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ICL		05/04/11 17:20	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 17:20	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 17:20	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 17:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 17:20	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 17:20	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 17:20	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 17:20	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 17:20	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 17:20	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 17:20	1
t-Butanol	**240**	**E**	5.0	2.6	ug/L			05/04/11 17:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 17:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 17:20	1

N

#Repeat from dilution

TestAmerica Savannah

7/5/11

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 17:20	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 17:20	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 17:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 17:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 17:20	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 17:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 17:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 17:20	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 17:20	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 17:20	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 17:20	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 17:20	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 17:20	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 17:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*6.1*	*J J N*	*ug/L*		*1.44*			*05/04/11 17:20*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/04/11 17:20*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 17:20*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 17:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/05/11 15:59	5
Acetonitrile	200	U	200	50	ug/L			05/05/11 15:59	5
Acrolein	100	U	100	37	ug/L			05/05/11 15:59	5
Acrylonitrile	100	U	100	36	ug/L			05/05/11 15:59	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
Benzene	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/05/11 15:59	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/05/11 15:59	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/05/11 15:59	5
2-Butanone	50	U	50	5.0	ug/L			05/05/11 15:59	5
Carbon disulfide	10	U	10	3.0	ug/L			05/05/11 15:59	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/05/11 15:59	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/05/11 15:59	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/05/11 15:59	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/05/11 15:59	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/05/11 15:59	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 15:59	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/05/11 15:59	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/05/11 15:59	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/05/11 15:59	5
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/05/11 15:59	5
Diethyl ether	50	U	50	5.0	ug/L			05/05/11 15:59	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/05/11 15:59	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
2-Hexanone	50	U	50	5.0	ug/L			05/05/11 15:59	5
Iodomethane	25	U	25	5.0	ug/L			05/05/11 15:59	5
Isobutyl alcohol	200	U	200	55	ug/L			05/05/11 15:59	5
Methacrylonitrile	100	U	100	16	ug/L			05/05/11 15:59	5
Methylene Chloride	25	U	25	5.0	ug/L			05/05/11 15:59	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/05/11 15:59	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/05/11 15:59	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/05/11 15:59	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/05/11 15:59	5
Pentachloroethane	25	U	25	6.0	ug/L			05/05/11 15:59	5
Propionitrile	100	U	100	23	ug/L			05/05/11 15:59	5
Propylene oxide	1000	U	1000	1000	ug/L			05/05/11 15:59	5
Styrene	5.0	U	5.0	0.55	ug/L			05/05/11 15:59	5
t-Butanol	**270**	D	25	13	ug/L			05/05/11 15:59	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/05/11 15:59	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/05/11 15:59	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/05/11 15:59	5
Toluene	5.0	U	5.0	1.6	ug/L			05/05/11 15:59	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/05/11 15:59	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/05/11 15:59	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/05/11 15:59	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/05/11 15:59	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/05/11 15:59	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/05/11 15:59	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/05/11 15:59	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/05/11 15:59	5
Vinyl acetate	10	U	10	1.4	ug/L			05/05/11 15:59	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/05/11 15:59	5
Xylenes, Total	10	U	10	1.0	ug/L			05/05/11 15:59	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 15:59*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/05/11 15:59*	*5*
Dibromofluoromethane	*104*		*70 - 130*		*05/05/11 15:59*	*5*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/05/11 15:59*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 23:30	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 21:59	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 21:59	1

Client Sample ID: RAB-MW3
Date Collected: 04/28/11 12:15
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-7
Matrix: Water

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	1000	U	1000	830	ug/L			05/12/11 21:59	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8000**		100	50	ug/L		05/03/11 17:39	05/06/11 00:19	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:19	1
Arsenic	**6.6**		2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:19	1
Barium	**210**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:19	1
Beryllium	**0.54**		0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:19	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:19	1
Calcium	**12000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:19	1
Chromium	**16**		5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:19	1
Cobalt	**9.5**	J	0.50	0.12	ug/L	SD	05/03/11 17:39	05/06/11 00:19	1
Copper	**7.0**		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:19	1
Iron	**130000**		100	44	ug/L		05/03/11 17:39	05/06/11 00:19	1
Lead	**10**		1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:19	1
Magnesium	**25000**		250	100	ug/L		05/03/11 17:39	05/06/11 00:19	1
Manganese	**420**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:19	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:19	1
Nickel	**13**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:19	1
Potassium	**1100**		1000	330	ug/L		05/03/11 17:39	05/06/11 00:19	1
Selenium	**1.2**	J	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:19	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:19	1
Sodium	**58000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:19	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:19	1
Vanadium	**26**		10	3.2	ug/L		05/03/11 17:39	05/06/11 00:19	1
Zinc	**22**		20	8.4	ug/L		05/03/11 17:39	05/06/11 00:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59000**		1000	180	ug/L			05/17/11 10:45	1
Nitrogen, Kjeldahl	**3900**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:46	1
Nitrite as N	**11**	J	50	10	ug/L			04/29/11 17:46	1
Sulfate	**21000**		5000	2500	ug/L			05/17/11 13:25	1
Total Organic Carbon	**28000**		1000	500	ug/L			05/17/11 14:45	1

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 13:56	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 13:56	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 13:56	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 13:56	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 13:56	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 13:56	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 13:56	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 13:56	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 13:56	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 13:56	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 13:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 13:56	1
Chloroform	**0.94**	**J**	1.0	0.14	ug/L			05/05/11 13:56	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:56	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 13:56	1
cis-1,2-Dichloroethene	**0.36**	**J**	1.0	0.15	ug/L			05/05/11 13:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 13:56	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 13:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 13:56	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 13:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
1,1-Dichloroethane	**1.4**		1.0	0.25	ug/L			05/05/11 13:56	1
1,2-Dichloroethane	**0.21**	**J**	1.0	0.10	ug/L			05/05/11 13:56	1
1,1-Dichloroethene	**1.8**		1.0	0.11	ug/L			05/05/11 13:56	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 13:56	1
Diethyl ether	**20**		10	1.0	ug/L			05/05/11 13:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 13:56	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 13:56	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 13:56	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 13:56	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ICL		05/05/11 13:56	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 13:56	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 13:56	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 13:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 13:56	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 13:56	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 13:56	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 13:56	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 13:56	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 13:56	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 13:56	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/05/11 13:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 13:56	1
1,1,2,2-Tetrachloroethane	**0.50**	**J**	1.0	0.18	ug/L			05/05/11 13:56	1

Client Sample ID: MW-10

Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**13**		1.0	0.15	ug/L			05/05/11 13:56	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 13:56	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 13:56	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.20	ug/L			05/05/11 13:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 13:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 13:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 13:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 13:56	1
Trichloroethylene	**2.1**		1.0	0.13	ug/L			05/05/11 13:56	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 13:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 13:56	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 13:56	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 13:56	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 13:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 13:56*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/05/11 13:56*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/05/11 13:56*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/11 13:56*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Acetophenone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/18/11 17:19	1
Aniline	1.9	U	1.9	0.93	ug/L		05/03/11 14:47	05/18/11 17:19	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 17:19	1
Diallate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,4-Dichlorobenzene	**0.14**	**JB**	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 17:19	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/03/11 14:47	05/18/11 17:19	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		05/03/11 14:47	05/18/11 17:19	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,6-Dinitrotoluene	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,4-Dioxane	**24**		1.9	0.30	ug/L		05/03/11 14:47	05/18/11 17:19	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Famphur	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 17:19	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Fluorene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorobutadiene	**0.12**	**J**	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachlorophene	480	U	480	24	ug/L		05/03/11 14:47	05/18/11 17:19	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Methapyrilene	190	U	190	1.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Methyl parathion	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/18/11 17:19	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		05/03/11 14:47	05/18/11 17:19	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/03/11 14:47	05/18/11 17:19	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/03/11 14:47	05/18/11 17:19	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.1	ug/L	RL	05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
o-Toluidine	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenol	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Phorate	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:19	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pronamide	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/18/11 17:19	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:19	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		05/03/11 14:47	05/18/11 17:19	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/03/11 14:47	05/18/11 17:19	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/03/11 14:47	05/18/11 17:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*24*	*J A*	*ug/L*		*4.30*		*05/03/11 14:47*	*05/18/11 17:19*	*50*
Unknown	*1.6*	*J*	*ug/L*		*5.33*		*05/03/11 14:47*	*05/18/11 17:19*	*35*
Unknown	*1.1*	*J*	*ug/L*		*5.64*		*05/03/11 14:47*	*05/18/11 17:19*	*64*

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.76	J	ug/L		6.38		05/03/11 14:47	05/18/11 17:19	1
Unknown	1.0	J	ug/L		8.96		05/03/11 14:47	05/18/11 17:19	1
Diethyltoluamide	7.7	J N	ug/L		9.69	134-62-3	05/03/11 14:47	05/18/11 17:19	1
Unknown Organic Acid	1.8	J	ug/L		12.46		05/03/11 14:47	05/18/11 17:19	1
Unknown	1.6	J	ug/L		12.67		05/03/11 14:47	05/18/11 17:19	1
Octadecanoic acid, butyl ester	1.2	J N	ug/L		13.53	123-95-5	05/03/11 14:47	05/18/11 17:19	1
Acetic acid, (triphenylphosphoranylidene	2.6	J N	ug/L		14.33	2605-67-6	05/03/11 14:47	05/18/11 17:19	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		34 - 130	05/03/11 14:47	05/18/11 17:19	1
2-Fluorophenol	55		25 - 130	05/03/11 14:47	05/18/11 17:19	1
Nitrobenzene-d5	65		32 - 130	05/03/11 14:47	05/18/11 17:19	1
Phenol-d5	54		27 - 130	05/03/11 14:47	05/18/11 17:19	1
Terphenyl-d14	70		36 - 130	05/03/11 14:47	05/18/11 17:19	1
2,4,6-Tribromophenol	74		30 - 130	05/03/11 14:47	05/18/11 17:19	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 23:54	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 22:23	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 22:23	1
Methanol	1000	U	1000	830	ug/L			05/12/11 22:23	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**680**		100	50	ug/L		05/03/11 17:39	05/06/11 00:26	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:26	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:26	1
Barium	**15**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:26	1
Beryllium	**0.25**	J	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:26	1
Cadmium	**4.5**		0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:26	1
Calcium	**130000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:26	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:26	1
Cobalt	**91**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 00:26	1
Copper	**3.0**	J	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:26	1
Iron	**550**		100	44	ug/L		05/03/11 17:39	05/06/11 00:26	1
Lead	**0.54**	J	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:26	1
Magnesium	**38000**		250	100	ug/L		05/03/11 17:39	05/06/11 00:26	1
Manganese	**4700**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:26	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:26	1
Nickel	**73**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:26	1
Potassium	**4900**		1000	330	ug/L		05/03/11 17:39	05/06/11 00:26	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:26	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:26	1
Sodium	**210000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:26	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:26	1
Vanadium	**3.3**	J	10	3.2	ug/L		05/03/11 17:39	05/06/11 00:26	1
Zinc	**37**		20	8.4	ug/L		05/03/11 17:39	05/06/11 00:26	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-10
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250000**		5000	900	ug/L			05/17/11 11:20	5
Nitrogen, Kjeldahl	**280**		200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1
Nitrate as N	**5700**		250	50	ug/L			04/29/11 18:32	5
Nitrite as N	250	U	250	50	ug/L			04/29/11 18:32	5
Sulfate	**530000**		100000	50000	ug/L			05/17/11 14:12	20
Total Organic Carbon	**1400**		1000	500	ug/L			05/17/11 15:06	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 13:30	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 13:30	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 13:30	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 13:30	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 13:30	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 13:30	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 13:30	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 13:30	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 13:30	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 13:30	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 13:30	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 13:30	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 13:30	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:30	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 13:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 13:30	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 13:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:30	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 13:30	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 13:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 13:30	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 13:30	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 13:30	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/04/11 13:30	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 13:30	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 13:30	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 13:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 13:30	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 13:30	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 13:30	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 13:30	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 13:30	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 13:30	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 13:30	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 13:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 13:30	1

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:30	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 13:30	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 13:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 13:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 13:30	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 13:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 13:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 13:30	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 13:30	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 13:30	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 13:30	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 13:30	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 13:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 13:30*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 13:30*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 13:30*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/04/11 13:30*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U J	0.19	0.095	ug/L	HT	05/05/11 14:45	05/18/11 18:40	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Acetophenone	**0.099**	**J B**	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Acetylaminofluorene	0.95	U J	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/05/11 14:45	05/18/11 18:40	1
Aniline	1.9	U	1.9	0.93	ug/L		05/05/11 14:45	05/18/11 18:40	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U J	0.19	0.043	ug/L	HT	05/05/11 14:45	05/18/11 18:40	1
Diallate	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,4-Dichlorobenzene	**0.14**	**J B**	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
3,3'-Dichlorobenzidine	19	U J	19	1.9	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/05/11 14:45	05/18/11 18:40	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/05/11 14:45	05/18/11 18:40	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/05/11 14:45	05/18/11 18:40	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/05/11 14:45	05/18/11 18:40	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Famphur	0.95	U	0.95	0.15	ug/L		05/05/11 14:45	05/18/11 18:40	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachlorophene	480	U *	480	24	ug/L		05/05/11 14:45	05/18/11 18:40	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Methapyrilene	190	U *	190	1.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/05/11 14:45	05/18/11 18:40	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/05/11 14:45	05/18/11 18:40	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/05/11 14:45	05/18/11 18:40	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U J	0.95	0.48	ug/L	HT	05/05/11 14:45	05/18/11 18:40	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/05/11 14:45	05/18/11 18:40	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
4-Nitroquinoline-1-oxide	1.9	U R J	1.9	1.1	ug/L	ICL HT	05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodiethylamine	0.95	U J	0.95	0.095	ug/L	HT	05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenol	0.95	U	0.95	0.12	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Phorate	0.95	U	0.95	0.19	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/05/11 14:45	05/18/11 18:40	1
p-Phenylene diamine	190	U	190	15	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/05/11 14:45	05/18/11 18:40	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/05/11 14:45	05/18/11 18:40	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/05/11 14:45	05/18/11 18:40	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/05/11 14:45	05/18/11 18:40	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/05/11 14:45	05/18/11 18:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*37*	*J A J*	*ug/L*		*4.30*		*05/05/11 14:45*	*05/18/11 18:40*	66 1
Unknown	*2.7*	*J J*	*ug/L*		*4.81*		*05/05/11 14:45*	*05/18/11 18:40*	72 1
Unknown	*1.9*	*J J*	*ug/L*		*5.26*		*05/05/11 14:45*	*05/18/11 18:40*	85 1

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8.2	TJ	ug/L		5.33		05/05/11 14:45	05/18/11 18:40	1
Benzaldehyde	0.57	J*	ug/L		5.47	100-52-7	05/05/11 14:45	05/18/11 18:40	1
Unknown	0.50	TJ	ug/L		5.99		05/05/11 14:45	05/18/11 18:40	1
Unknown	1.2	TJ	ug/L		6.57		05/05/11 14:45	05/18/11 18:40	1
Unknown	2.1	TJ	ug/L		8.96		05/05/11 14:45	05/18/11 18:40	1
Unknown	3.2	TJ	ug/L		11.52		05/05/11 14:45	05/18/11 18:40	1
Unknown	1.8	TJ	ug/L		12.67		05/05/11 14:45	05/18/11 18:40	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		34 - 130	05/05/11 14:45	05/18/11 18:40	1
2-Fluorophenol	66		25 - 130	05/05/11 14:45	05/18/11 18:40	1
Nitrobenzene-d5	72		32 - 130	05/05/11 14:45	05/18/11 18:40	1
Phenol-d5	68		27 - 130	05/05/11 14:45	05/18/11 18:40	1
Terphenyl-d14	78		36 - 130	05/05/11 14:45	05/18/11 18:40	1
2,4,6-Tribromophenol	71		30 - 130	05/05/11 14:45	05/18/11 18:40	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 00:18	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 22:47	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 22:47	1
Methanol	1000	U	1000	830	ug/L			05/12/11 22:47	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/03/11 17:39	05/06/11 00:33	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:33	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:33	1
Barium	5.0	U	5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:33	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:33	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:33	1
Calcium	500	U	500	170	ug/L		05/03/11 17:39	05/06/11 00:33	1
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:33	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/03/11 17:39	05/06/11 00:33	1
Copper	5.0	U	5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:33	1
Iron	100	U	100	44	ug/L		05/03/11 17:39	05/06/11 00:33	1
Lead	1.5	U	1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:33	1
Magnesium	250	U	250	100	ug/L		05/03/11 17:39	05/06/11 00:33	1
Manganese	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:33	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:33	1
Nickel	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:33	1
Potassium	1000	U	1000	330	ug/L		05/03/11 17:39	05/06/11 00:33	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:33	1
Silver	1.0	U	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:33	1
Sodium	500	U	500	170	ug/L		05/03/11 17:39	05/06/11 00:33	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:33	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:39	05/06/11 00:33	1
Zinc	20	U	20	8.4	ug/L		05/03/11 17:39	05/06/11 00:33	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: Field Blank
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4300**		1000	180	ug/L			05/17/11 11:29	1
Nitrogen, Kjeldahl	**1300**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:48	1
Nitrite as N	**60**		50	10	ug/L			04/29/11 17:48	1
Sulfate	**4100**	**J**	5000	2500	ug/L			05/17/11 13:49	1
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 15:22	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/05/11 14:25	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 14:25	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 14:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 14:25	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 14:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/05/11 14:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/05/11 14:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/05/11 14:25	1
2-Butanone	10	U	10	1.0	ug/L			05/05/11 14:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/05/11 14:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/05/11 14:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/05/11 14:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/05/11 14:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/05/11 14:25	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/05/11 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 14:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/05/11 14:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/05/11 14:25	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/05/11 14:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/05/11 14:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/05/11 14:25	1
Diethyl ether	**93**		10	1.0	ug/L			05/05/11 14:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
Ethylene oxide	200	U	200	200	ug/L			05/05/11 14:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/05/11 14:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/05/11 14:25	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/05/11 14:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/05/11 14:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/05/11 14:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/05/11 14:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/05/11 14:25	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/05/11 14:25	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/05/11 14:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/05/11 14:25	1
Propionitrile	20	U	20	4.6	ug/L			05/05/11 14:25	1
Propylene oxide	200	U	200	200	ug/L			05/05/11 14:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/05/11 14:25	1
t-Butanol	**6.1**		5.0	2.6	ug/L			05/05/11 14:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/05/11 14:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/05/11 14:25	1

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/05/11 14:25	1
Toluene	1.0	U	1.0	0.33	ug/L			05/05/11 14:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/05/11 14:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/05/11 14:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/05/11 14:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/05/11 14:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 14:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 14:25	1
Trichloroethylene	**0.54**	**J**	1.0	0.13	ug/L			05/05/11 14:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 14:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 14:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 14:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 14:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 14:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/05/11 14:25*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/05/11 14:25*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/05/11 14:25*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/11 14:25*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.17**	**J**	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Aminobiphenyl	4.8	U	4.8	0.29	ug/L		05/03/11 14:47	05/18/11 17:46	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/18/11 17:46	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 17:46	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,4-Dichlorobenzene	**0.12**	**JB**	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dichlorophenol	0.95	U L	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 17:46	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L		05/03/11 14:47	05/18/11 17:46	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/18/11 17:46	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,4-Dioxane	**1.2**	**J**	1.9	0.29	ug/L		05/03/11 14:47	05/18/11 17:46	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 17:46	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachlorophene	480	U L	480	24	ug/L		05/03/11 14:47	05/18/11 17:46	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Methylnaphthalene	**0.25**		0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/03/11 14:47	05/18/11 17:46	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L		05/03/11 14:47	05/18/11 17:46	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 17:46	1
Naphthalene	**0.18**	**J**	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 17:46	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.0	ug/L	ICL	05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:46	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Pyridine	4.8	U	4.8	0.69	ug/L		05/03/11 14:47	05/18/11 17:46	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 17:46	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 17:46	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 17:46	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 17:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*52*	*J*	*ug/L*		*6.39*		*05/03/11 14:47*	*05/18/11 17:46*	59 1
Unknown	*2.4*	*J*	*ug/L*		*7.10*		*05/03/11 14:47*	*05/18/11 17:46*	42 1
Unknown	*1.9*	*J*	*ug/L*		*7.17*		*05/03/11 14:47*	*05/18/11 17:46*	30 1

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	160	J	ug/L		8.24		05/03/11 14:47	05/18/11 17:46	1
Unknown	2.5	J	ug/L		8.27		05/03/11 14:47	05/18/11 17:46	1
Unknown	3.0	J	ug/L		8.84		05/03/11 14:47	05/18/11 17:46	1
Unknown	1.4	J	ug/L		8.96		05/03/11 14:47	05/18/11 17:46	1
Unknown	49	J	ug/L		9.84		05/03/11 14:47	05/18/11 17:46	1
Oleic Acid	2.2	J N	ug/L		12.46	112-80-1	05/03/11 14:47	05/18/11 17:46	1
Acetic acid, (triphenylphosphoranylidene	3.3	J N	ug/L		14.33	2605-67-6	05/03/11 14:47	05/18/11 17:46	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		34 - 130	05/03/11 14:47	05/18/11 17:46	1
2-Fluorophenol	50		25 - 130	05/03/11 14:47	05/18/11 17:46	1
Nitrobenzene-d5	55		32 - 130	05/03/11 14:47	05/18/11 17:46	1
Phenol-d5	52		27 - 130	05/03/11 14:47	05/18/11 17:46	1
Terphenyl-d14	69		36 - 130	05/03/11 14:47	05/18/11 17:46	1
2,4,6-Tribromophenol	71		30 - 130	05/03/11 14:47	05/18/11 17:46	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 00:42	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 23:11	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 23:11	1
Methanol	1000	U	1000	830	ug/L			05/12/11 23:11	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**460**		100	50	ug/L		05/03/11 17:39	05/06/11 01:50	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:50	1
Arsenic	**1.4**	**J**	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 01:50	1
Barium	**56**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 01:50	1
Beryllium	**3.0**		0.50	0.15	ug/L		05/03/11 17:39	05/06/11 01:50	1
Cadmium	**11**		0.50	0.13	ug/L		05/03/11 17:39	05/06/11 01:50	1
Calcium	**560000**		1000	340	ug/L		05/03/11 17:39	05/06/11 10:15	2
Chromium	5.0	U	5.0	2.5	ug/L		05/03/11 17:39	05/06/11 01:50	1
Cobalt	**440**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 01:50	1
Copper	**88**		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 01:50	1
Iron	**43000**		100	44	ug/L		05/03/11 17:39	05/06/11 01:50	1
Lead	**1.7**		1.5	0.50	ug/L		05/03/11 17:39	05/06/11 01:50	1
Magnesium	**320000**		250	100	ug/L		05/03/11 17:39	05/06/11 01:50	1
Manganese	**48000**		50	20	ug/L		05/03/11 17:39	05/06/11 10:49	10
Mercury	**1.6**		0.80	0.40	ug/L		05/03/11 17:39	05/06/11 01:50	1
Nickel	**130**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 01:50	1
Potassium	**3800**		1000	330	ug/L		05/03/11 17:39	05/06/11 01:50	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 01:50	1
Silver	**2.1**		1.0	0.18	ug/L		05/03/11 17:39	05/06/11 01:50	1
Sodium	**280000**		500	170	ug/L		05/03/11 17:39	05/06/11 01:50	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 01:50	1
Vanadium	10	U	10	3.2	ug/L		05/03/11 17:39	05/06/11 01:50	1
Zinc	**110**		20	8.4	ug/L		05/03/11 17:39	05/06/11 01:50	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7U
Date Collected: 04/28/11 16:35
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100000**		50000	9000	ug/L			05/17/11 11:37	50
Nitrogen, Kjeldahl	**750**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	**18**	**J**	50	10	ug/L			04/29/11 17:49	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:49	1
Sulfate	**520000**		100000	50000	ug/L			05/17/11 14:10	20
Total Organic Carbon	**2400**		1000	500	ug/L			05/17/11 15:38	1

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 18:47	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 18:47	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 18:47	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 18:47	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 18:47	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 18:47	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 18:47	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 18:47	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 18:47	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 18:47	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 18:47	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 18:47	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 18:47	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 18:47	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 18:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 18:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 18:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 18:47	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 18:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 18:47	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 18:47	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 18:47	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 18:47	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 18:47	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 18:47	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L		IAL	05/04/11 18:47	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 18:47	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 18:47	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 18:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 18:47	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 18:47	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 18:47	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 18:47	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 18:47	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 18:47	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 18:47	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 18:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 18:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 18:47	1

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 18:47	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 18:47	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 18:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 18:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 18:47	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 18:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 18:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 18:47	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 18:47	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 18:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 18:47	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 18:47	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 18:47	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 18:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 18:47*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 18:47*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/04/11 18:47*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 18:47*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/03/11 14:47	05/18/11 18:13	1
Aniline	1.9	U	1.9	0.92	ug/L		05/03/11 14:47	05/18/11 18:13	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19	U	0.19	0.043	ug/L		05/03/11 14:47	05/18/11 18:13	1
Diallate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,4-Dichlorobenzene	0.17	~~J~~ B	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dichlorophenol	0.95	U L	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 18:13	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dimethylphenol	1.9	U L	1.9	0.66	ug/L		05/03/11 14:47	05/18/11 18:13	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/03/11 14:47	05/18/11 18:13	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/03/11 14:47	05/18/11 18:13	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Famphur	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 18:13	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachlorophene	480	U L	480	24	ug/L		05/03/11 14:47	05/18/11 18:13	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Methapyrilene	190	U	190	1.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/03/11 14:47	05/18/11 18:13	1
3 & 4 Methylphenol	1.9	U L	1.9	0.63	ug/L		05/03/11 14:47	05/18/11 18:13	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/03/11 14:47	05/18/11 18:13	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/03/11 14:47	05/18/11 18:13	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.0	ug/L	ICL	05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenol	0.95	U	0.95	0.12	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Phorate	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 18:13	1
p-Phenylene diamine	190	U	190	15	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/03/11 14:47	05/18/11 18:13	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/03/11 14:47	05/18/11 18:13	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/03/11 14:47	05/18/11 18:13	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/03/11 14:47	05/18/11 18:13	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/03/11 14:47	05/18/11 18:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*20*	~~J~~ A J	*ug/L*		*4.29*		*05/03/11 14:47*	*05/18/11 18:13*	50 *1*
Unknown	*2.0*	~~J~~ J	*ug/L*		*5.33*		*05/03/11 14:47*	*05/18/11 18:13*	45 *1*
Unknown	*0.95*	~~J~~ J	*ug/L*		*8.96*		*05/03/11 14:47*	*05/18/11 18:13*	5 *1*

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Organic Acid	*1.1*	*TJ*	*ug/L*		*12.48*		*05/03/11 14:47*	*05/18/11 18:13*	*1*
Unknown	*6.6*	*TJ*	*ug/L*		*12.67*		*05/03/11 14:47*	*05/18/11 18:13*	*1*
Unknown Organic Acid	*0.76*	*TJ*	*ug/L*		*13.36*		*05/03/11 14:47*	*05/18/11 18:13*	*1*
Unknown Organic Acid	*0.80*	*TJ*	*ug/L*		*13.90*		*05/03/11 14:47*	*05/18/11 18:13*	*1*
Phosphine oxide, triphenyl-	*2.7*	*TJN*	*ug/L*		*14.33*	*791-28-6*	*05/03/11 14:47*	*05/18/11 18:13*	*1*
Unknown	*1.1*	*TJ*	*ug/L*		*14.36*		*05/03/11 14:47*	*05/18/11 18:13*	*1*
Unknown	*0.60*	*TJ*	*ug/L*		*18.16*		*05/03/11 14:47*	*05/18/11 18:13*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*34 - 130*	*05/03/11 14:47*	*05/18/11 18:13*	*1*
2-Fluorophenol	*58*		*25 - 130*	*05/03/11 14:47*	*05/18/11 18:13*	*1*
Nitrobenzene-d5	*65*		*32 - 130*	*05/03/11 14:47*	*05/18/11 18:13*	*1*
Phenol-d5	*59*		*27 - 130*	*05/03/11 14:47*	*05/18/11 18:13*	*1*
Terphenyl-d14	*59*		*36 - 130*	*05/03/11 14:47*	*05/18/11 18:13*	*1*
2,4,6-Tribromophenol	*70*		*30 - 130*	*05/03/11 14:47*	*05/18/11 18:13*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 01:06	1
Ethanol	1000	U	1000	330	ug/L			05/12/11 23:35	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 23:35	1
Methanol	**2200**		1000	830	ug/L			05/12/11 23:35	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3400**		100	50	ug/L		05/03/11 17:39	05/06/11 00:47	1
Antimony	5.0	U	5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:47	1
Arsenic	**1.5**	J	2.5	1.3	ug/L		05/03/11 17:39	05/06/11 00:47	1
Barium	**160**		5.0	1.4	ug/L		05/03/11 17:39	05/06/11 00:47	1
Beryllium	**0.73**		0.50	0.15	ug/L		05/03/11 17:39	05/06/11 00:47	1
Cadmium	**0.16**	J	0.50	0.13	ug/L		05/03/11 17:39	05/06/11 00:47	1
Calcium	**94000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:47	1
Chromium	**13**		5.0	2.5	ug/L		05/03/11 17:39	05/06/11 00:47	1
Cobalt	**6.1**		0.50	0.12	ug/L		05/03/11 17:39	05/06/11 00:47	1
Copper	**5.6**		5.0	1.1	ug/L		05/03/11 17:39	05/06/11 00:47	1
Iron	**7900**		100	44	ug/L		05/03/11 17:39	05/06/11 00:47	1
Lead	**2.5**		1.5	0.50	ug/L		05/03/11 17:39	05/06/11 00:47	1
Magnesium	**7800**		250	100	ug/L		05/03/11 17:39	05/06/11 00:47	1
Manganese	**810**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:47	1
Mercury	0.80	U	0.80	0.40	ug/L		05/03/11 17:39	05/06/11 00:47	1
Nickel	**8.7**		5.0	2.0	ug/L		05/03/11 17:39	05/06/11 00:47	1
Potassium	**5600**		1000	330	ug/L		05/03/11 17:39	05/06/11 00:47	1
Selenium	2.5	U	2.5	1.1	ug/L		05/03/11 17:39	05/06/11 00:47	1
Silver	**0.49**	J	1.0	0.18	ug/L		05/03/11 17:39	05/06/11 00:47	1
Sodium	**20000**		500	170	ug/L		05/03/11 17:39	05/06/11 00:47	1
Thallium	1.0	U	1.0	0.25	ug/L		05/03/11 17:39	05/06/11 00:47	1
Vanadium	**11**		10	3.2	ug/L		05/03/11 17:39	05/06/11 00:47	1
Zinc	**14**	J	20	8.4	ug/L		05/03/11 17:39	05/06/11 00:47	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67794-1
SDG: HAQ035

Client Sample ID: MW-7L
Date Collected: 04/28/11 16:40
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-11
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55000**		1000	180	ug/L			05/17/11 10:56	1
Nitrogen, Kjeldahl	**250**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/29/11 17:53	1
Nitrite as N	50	U	50	10	ug/L			04/29/11 17:53	1
Sulfate	**32000**		10000	5000	ug/L			05/17/11 13:51	2
Total Organic Carbon	**690**	**J**	1000	500	ug/L			05/17/11 16:35	1

Client Sample ID: Trip Blank 3
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 13:59	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 13:59	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 13:59	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 13:59	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 13:59	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 13:59	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 13:59	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 13:59	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 13:59	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 13:59	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 13:59	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 13:59	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 13:59	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:59	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 13:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 13:59	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 13:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 13:59	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 13:59	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 13:59	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 13:59	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 13:59	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 13:59	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ILL		05/04/11 13:59	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 13:59	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 13:59	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 13:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 13:59	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 13:59	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 13:59	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 13:59	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 13:59	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 13:59	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 13:59	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 13:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 13:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 13:59	1

Client Sample ID: Trip Blank 3
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:28

Lab Sample ID: 680-67837-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 13:59	1
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 13:59	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 13:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 13:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 13:59	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 13:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 13:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 13:59	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 13:59	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 13:59	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 13:59	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 13:59	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 13:59	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 13:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 13:59*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 13:59*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/04/11 13:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 13:59*	*1*

Project: 2011 Annual Groundwater Monitoring Event – Ashland Aqualon Functional Ingredients, 1111 Hercules Road, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ036
Fraction: Organic
Matrix: Aqueous
Report Date: 7/16/2011

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. One equipment blank, one field blank, two trip blanks, one field duplicate, and one matrix spike matrix spike duplicate were submitted with the samples in this SDG. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. Test America's, Savannah, Georgia performed all analyses with the exception of acrylamide, performed at the Tallahasee, Florida location.

The samples were analyzed for Hercules-Aqualon Appendix IX volatile organic compounds, Hercules-Aqualon Appendix IX semivolatile organic compounds, and alcohols. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008. Test America's, Savannah, Georgia performed all analyses with the exception of acrylamide, performed by at the Tallahasee, Florida location.

For the volatile and semivolatile fractions determined by Gas Chromatography/Mass Spectrometry, library searches were performed to "tentatively identify" chromatographic peaks whose characteristics did not match those of targeted compounds. Library searches were performed for up to ten volatile and twenty semivolatile extraneous peaks.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "Laboratory Data Validation Functional Guidelines for Validating Organic Analyses", USEPA 9/94. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the

non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

11/7/2011
Date

1.0 *DATA COMPLETENESS*

Sample MW-9 was re-analyzed for volatiles because the responses for tert-butyl alcohol and diethyl ether exceeded the linear range for the initial analysis. Tert- butyl alcohol was absent from the quantitation report for the dilution analysis. The laboratory was contacted and provided a reprocessed quantitation report for this sample.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

Sample MW-1 was analyzed for alcohol compounds 1 and 10-days outside of the holding time of 14 days, as stated in the current 40 CFR Part 136. Because the sample was analyzed outside of holding time, biological or chemical degradation may have occurred. Positive results for alcohol compounds for the sample have been marked with "L" qualifiers to indicate that they are quantitative estimates. Reporting limits (RLs) have been marked "UL".

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

The isobutyl alcohol RLs for the samples have been rejected, and should be considered suspect. The average relative response factor for volatile organic compound isobutyl alcohol was below 0.05 for the associated initial calibration. The poor response indicates a lack of instrument

sensitivity for this compound. RLs have been marked "R" to indicate that they are suspect.

4-Nitroquinoline-1-oxide RLs for the samples have been rejected, and should be considered suspect. The average relative response factor for semivolatile organic compound 4-nitroquinoline-1-oxide was below 0.05 for the associated initial calibration. The poor response indicates a lack of instrument sensitivity for this compound. RLs have been marked "R" to indicate that they are suspect.

The RLs for the volatile organic compound iodomethane for sample VFSP-MW-1, MW-4, MW-4U, MW-9, MW-5, MW-5U, FIELD DUPLICATE, and MW-2 should be considered quantitative estimates. The continuing calibration precision criterion (the percent difference between initial and continuing calibration RRFs $\leq$ 20 percent) was exceeded for this compound. This indicates a lack of instrument stability. The nondetected results have been marked "UJ" to indicate that they are estimates.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

The positive results reported for the compounds presented below are qualitatively invalid due to the presence of these compounds in associated field and laboratory method blanks. USEPA Region III protocol requires positive results for uncommon contaminants, such as acetophenone or 1, 4-dichlorobenzene, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. Placing "B" qualifiers next to these quantitative results for the samples has indicated this.

Compound	Samples With Qualified Results
Acetophenone	MW-4, FIELD DUPLICATE
1,4-Dichlorobenzene	MW-4, MW-4U, MW-9, MW-5, MW-5U, FIELD DUPLICATE, MW-2, MW-1

7.0 *SURROGATE COMPOUNDS*

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples MW-5 and FIELD DUPLICATE were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for these duplicate samples are presented in Table 2. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty percent for volatile detected compounds (and 25 percent for extractable compounds) to evaluate field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

The nondetected results for semivolatile organic compounds, famphur and hexachloropropene are quantitative estimates, and may be higher than reported. Low recoveries for these compounds were obtained for the associated laboratory control sample analysis. The low recovery indicates inefficiencies with the sample extraction/analytical processes. The famphur and hexachloropropene nondetected results have been marked with "UL" qualifiers to indicate that they are biased low quantitative estimates.

The laboratory did not spike the laboratory control sample with all of the Appendix IX compounds for the volatile and semivolatile analyses.

Therefore, the sample data could not be evaluated based on this parameter.

11.0 INTERNAL STANDARD PERFORMANCE

All criteria were met. No qualifiers were applied.

12.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

13.0 QUANTITATION/REPORTING LIMITS

The following samples were re-analyzed at dilutions for volatile organic compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC/ MS instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
MW-4	50.0	Diethyl ether
MW-4U	100	Diethyl ether, tert-Butyl alcohol
MW-9	50.0	Diethyl ether, tert-Butyl alcohol
MW-5	5.0	Diethyl ether, tert-Butyl alcohol
MW-5U	20.0	Diethyl ether
FIELD DUPLICATE	5.0	Diethyl ether, tert-Butyl alcohol
MW-2	200	Diethyl ether
MW-1	50.0	Diethyl ether
NAT-4	10.0	tert-Butyl alcohol

The following samples were re-analyzed at dilutions for alcohol compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results

for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
MW-5U	20.0	Methanol
MW-2	2.0	Methanol

As required by USEPA protocol, all volatile and semivolatile TICs have been reported with "J" qualifiers to indicate that they are quantitative estimates. EDQ has reported only those TIC results that have not been determined to be laboratory or field artifacts, and where possible has grouped TIC of similar classification.

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.
Semivolatile Organic Compounds	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.
Alcohols	Method 8015B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008.

Table 1 Samples For Data Validation Review
2011 Annual Groundwater Monitoring Event - Ashland Aqualon Functional Ingredients
1111 Hercules Road, Hopewell, Virginia
Test America Sample Delivery Group HAQ036

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED								
				VOC	SVOC	ALC	MET	CHL	NO2	NO3	TKN	TOC
VFSP-MW-1	680-67898-1	4/29/2011	Groundwater	X		X	X	X	X	X	X	X
MW-4	680-67898-2	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
EQUIPMENT BLANK	680-67898-3	4/29/2011	Equipment Blank	X	X	X	X	X	X	X	X	X
MW-4U	680-67898-4	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-9	680-67898-5	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-5	680-67898-6	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-5U	680-67898-7	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
FIELD BLANK	680-67898-8	4/29/2011	Field Blank	X	X	X	X	X	X	X	X	X
FIELD DUPLICATE	680-67898-9	4/29/2011	Field Duplicate	X	X	X	X	X	X	X	X	X
MW-2	680-67898-10	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
TRIP BLANK 4	680-67898-11	4/29/2011	Trip Blank	X		X						
MW-1	680-67948-1	5/2/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-4	680-67948-2	5/2/2011	Groundwater	X		X	X	X	X	X	X	X
Trip Blank	680-67948-3	5/2/2011	Trip Blank	X								

Table 2 Field Duplicate Sample Results for Organic Analyses
Groundwater Duplicate Samples MW-5 and FIELD DUPLICATE

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)	RPD	ACTION
	MW-5		FIELD DUPLICATE		
Diethyl ether	200		220	10	
t-Butanol	150		180	18	
1,4-Dioxane	1.3	J	ND	NC	

Project: 2011 Annual Groundwater Monitoring Event – Ashland Aqualon Functional Ingredients, 1111 Hercules Road, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ036
Fraction: Inorganic
Matrix: Aqueous
Report Date: 7/17/2011

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. One equipment blank, one field blank, one field duplicate, and one matrix spike matrix spike duplicate were submitted with the samples in this SDG. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008, and "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 10/2004. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

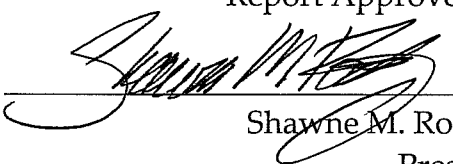
- X • Data Completeness
- X • Chain of Custody Documentation
- X • Holding Times
- X • Initial and Continuing Calibrations
- X • ICP Interference Check Sample Results

X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

7/17/2011

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

All chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The inorganic analytes presented in Table 2 were detected in associated laboratory method blanks at concentrations greater than their respective RL.

Positive results reported for nickel for samples VFSP-MW-1, MW-4, MW-9, MW-5, MW-5U, FIELD DUPLICATE, and nitrate for sample MW-5U, are qualitatively invalid due to their presence in the associated laboratory method blanks. USEPA Region III protocol requires positive results for inorganic contaminants, that are less than or equal to five times the blank

contamination level, to be considered qualitatively invalid. Placing "B" qualifiers next to the quantitative results for this nickel and nitrate for the samples has indicated this.

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples MW-5 and FIELD DUPLICATE were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Table 3. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 25 percent for values greater than five times the RL (or $\pm$ the RL for results less than five times the RL.

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 *GFAA POST-DIGESTION SPIKE/DUPLICATE BURN*

This parameter is not applicable to the analyses performed.

13.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

14.0 *QUANTITATION/REPORTING LIMITS*

As required by USEPA protocol, all inorganic analytes which were qualitatively identified at concentrations between their respective RLs and their method detection limits, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Analysis	Reference
Appendix IX Metals	Method 6020, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008
Total Organic Carbon	Method 9060, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, IVA, and IVB, January 2008
Chloride	Method 325.2"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrate-Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Total Kjeldahl Nitrogen	Method 351.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Sulfate	Method 375.4, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 1 Samples For Data Validation Review
2011 Annual Groundwater Monitoring Event - Ashland Aqualon Functional Ingredients
1111 Hercules Road, Hopewell, Virginia
Test America Sample Delivery Group HAQ036

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED								
				VOC	SVOC	ALC	MET	CHL	NO2	NO3	TKN	TOC
VFSP-MW-1	680-67898-1	4/29/2011	Groundwater	X		X	X	X	X	X	X	X
MW-4	680-67898-2	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
EQUIPMENT BLANK	680-67898-3	4/29/2011	Equipment Blank	X	X	X	X	X	X	X	X	X
MW-4U	680-67898-4	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-9	680-67898-5	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-5	680-67898-6	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
MW-5U	680-67898-7	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
FIELD BLANK	680-67898-8	4/29/2011	Field Blank	X	X	X	X	X	X	X	X	X
FIELD DUPLICATE	680-67898-9	4/29/2011	Field Duplicate	X	X	X	X	X	X	X	X	X
MW-2	680-67898-10	4/29/2011	Groundwater	X	X	X	X	X	X	X	X	X
TRIP BLANK 4	680-67898-11	4/29/2011	Trip Blank	X		X						
MW-1	680-67948-1	5/2/2011	Groundwater	X	X	X	X	X	X	X	X	X
NAT-4	680-67948-2	5/2/2011	Groundwater	X		X	X	X	X	X	X	X
Trip Blank	680-67948-3	5/2/2011	Trip Blank	X								

Table 3 **Field Duplicate Sample Results for Inorganic Analyses**
Groundwater Duplicate Samples MW-5 and FIELD DUPLICATE

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)		RPD	ACTION
	MW-5		FIELD DUPLICATE			
Aluminum	670		610		9	
Arsenic	1.6	J	1.7	J	6	
Barium	790		780		1	
Calcium	190000		180000		5	
Cobalt	1.6		1.5		6	
Copper	1.7	J	1.9	J	11	
Iron	53000		51000		4	
Magnesium	41000		39000		5	
Manganese	3000		2900		3	
Potassium	6700		6800		1	
Vanadium	5.0	J	4.9	J	2	
Zinc	ND		12	J	NC	
Sodium	760000		710000		7	
Chloride	1200000		1100000		9	
Kjeldahl Nitrogen	3000		3300		10	
Nitrate as N	1000		350		96	*
Sulfate	150000		130000		14	
Total Organic Carbon	14000		15000		7	

Data Validation Qualifier Code Glossary

B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J - The positive result reported for this analyte is a quantitative estimate.

U - This compound/analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

UJ - This compound/analyte was not detected in the sample. The quantitation/detection should be considered estimated and may be inaccurate or imprecise.

R The result for this compound/analyte is unusable. The analyte may or may not be present.

K - The positive result reported for this analyte is a biased high quantitative estimate. The actual result may be lower than reported.

L - The positive result for this analyte is a biased low quantitative estimate. The actual result may be higher than reported.

UL - This compound/analyte was not detected in the sample. The actual quantitation/detection may be higher than reported.

X - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.

<u>Other Codes:</u>

ND - There were no positive results for this analytical fraction.

NA - This parameter is not applicable to this sample.

NR - This analysis parameter was not required for this sample.

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: VFSP-MW-1
Date Collected: 04/29/11 09:15
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 02:40	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 02:40	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 02:40	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 02:40	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 02:40	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 02:40	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 02:40	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 02:40	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 02:40	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 02:40	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 02:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 02:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 02:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 02:40	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 02:40	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Diethyl ether	**69**		10	1.0	ug/L			05/06/11 02:40	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 02:40	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 02:40	1
Iodomethane	5.0	U J	5.0	1.0	ug/L		CCL	05/06/11 02:40	1
Isobutyl alcohol	40	U R	40	11	ug/L		ICL	05/06/11 02:40	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 02:40	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 02:40	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 02:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 02:40	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 02:40	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 02:40	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 02:40	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 02:40	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 02:40	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
t-Butanol	**6.3**		5.0	2.6	ug/L			05/06/11 02:40	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 02:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 02:40	1

7/6/11

Client Sample ID: VFSP-MW-1
Date Collected: 04/29/11 09:15
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 02:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 02:40	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 02:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 02:40	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 02:40	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 02:40	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 02:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 02:40*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 02:40*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*05/06/11 02:40*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 02:40*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 01:30	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 00:23	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 00:23	1
Methanol	1000	U	1000	830	ug/L			05/13/11 00:23	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**73**	**J**	100	50	ug/L		05/05/11 11:21	05/11/11 07:00	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:00	1
Barium	**180**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:00	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:00	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:00	1
Calcium	**86000**		500	170	ug/L		05/05/11 11:21	05/11/11 07:00	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:00	1
Cobalt	**2.2**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:00	1
Copper	**1.1**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:00	1
Iron	**3900**		100	44	ug/L		05/05/11 11:21	05/11/11 07:00	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:00	1
Magnesium	**8300**		250	100	ug/L		05/05/11 11:21	05/11/11 07:00	1
Manganese	**760**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:00	1
Nickel	**2.4**	**B**	5.0	2.0	ug/L	FB	05/05/11 11:21	05/11/11 07:00	1
Potassium	**6600**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 07:00	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:00	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:00	1
Sodium	**35000**		500	170	ug/L		05/05/11 11:21	05/11/11 07:00	1

Client Sample ID: VFSP-MW-1
Date Collected: 04/29/11 09:15
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:00	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:00	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51000**		1000	180	ug/L			05/21/11 12:18	1
Nitrogen, Kjeldahl	**370**		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:21	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:21	1
Sulfate	**130000**		25000	12000	ug/L			05/23/11 12:11	5
Total Organic Carbon	**680**	**J**	1000	500	ug/L			05/17/11 18:24	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 03:03	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:03	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:03	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Diethyl ether	~~1000~~	~~E~~	10	1.0	ug/L			05/06/11 03:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:03	1
Iodomethane	5.0	U J	5.0	1.0	ug/L		CCL	05/06/11 03:03	1
Isobutyl alcohol	40	J R	40	11	ug/L		ICL	05/06/11 03:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:03	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:03	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
t-Butanol	~~3200~~	~~E~~	5.0	2.6	ug/L			05/06/11 03:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:03	1

N

N

* Report from dilution

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 03:03*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/06/11 03:03*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/06/11 03:03*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 03:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/06/11 12:50	50
Acetonitrile	2000	U	2000	500	ug/L			05/06/11 12:50	50
Acrolein	1000	U	1000	370	ug/L			05/06/11 12:50	50
Acrylonitrile	1000	U	1000	360	ug/L			05/06/11 12:50	50
Allyl chloride	50	U	50	10	ug/L			05/06/11 12:50	50
Benzene	50	U	50	12	ug/L			05/06/11 12:50	50
Benzyl chloride	50	U	50	50	ug/L			05/06/11 12:50	50
Bromodichloromethane	50	U	50	12	ug/L			05/06/11 12:50	50
Bromoform	50	U	50	25	ug/L			05/06/11 12:50	50
Bromomethane	50	U	50	40	ug/L			05/06/11 12:50	50
2-Butanone	500	U	500	50	ug/L			05/06/11 12:50	50
Carbon disulfide	100	U	100	30	ug/L			05/06/11 12:50	50
Carbon tetrachloride	50	U	50	25	ug/L			05/06/11 12:50	50
Chlorobenzene	50	U	50	12	ug/L			05/06/11 12:50	50
Chloroethane	50	U	50	50	ug/L			05/06/11 12:50	50
Chloroform	50	U	50	7.0	ug/L			05/06/11 12:50	50
Chloromethane	50	U	50	16	ug/L			05/06/11 12:50	50
Chloroprene	50	U	50	15	ug/L			05/06/11 12:50	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/06/11 12:50	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/06/11 12:50	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/06/11 12:50	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/06/11 12:50	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/06/11 12:50	50
Dibromomethane	50	U	50	10	ug/L			05/06/11 12:50	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/06/11 12:50	50

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/06/11 12:50	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/06/11 12:50	50
Diethyl ether	**1400**	D	500	50	ug/L			05/06/11 12:50	50
Ethylbenzene	50	U	50	5.5	ug/L			05/06/11 12:50	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/06/11 12:50	50
Ethyl methacrylate	50	U	50	12	ug/L			05/06/11 12:50	50
2-Hexanone	500	U	500	50	ug/L			05/06/11 12:50	50
Iodomethane	250	U	250	50	ug/L			05/06/11 12:50	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/06/11 12:50	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/06/11 12:50	50
Methylene Chloride	250	U	250	50	ug/L			05/06/11 12:50	50
Methyl methacrylate	50	U	50	24	ug/L			05/06/11 12:50	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/06/11 12:50	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/06/11 12:50	50
n-Heptane	50	U	50	21	ug/L			05/06/11 12:50	50
Pentachloroethane	250	U	250	60	ug/L			05/06/11 12:50	50
Propionitrile	1000	U	1000	230	ug/L			05/06/11 12:50	50
Propylene oxide	10000	U	10000	10000	ug/L			05/06/11 12:50	50
Styrene	50	U	50	5.5	ug/L			05/06/11 12:50	50
t-Butanol	**2800**	D	250	130	ug/L			05/06/11 12:50	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/06/11 12:50	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/06/11 12:50	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/06/11 12:50	50
Toluene	50	U	50	16	ug/L			05/06/11 12:50	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/06/11 12:50	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/06/11 12:50	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/06/11 12:50	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/06/11 12:50	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/06/11 12:50	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/06/11 12:50	50
Trichloroethylene	50	U	50	6.5	ug/L			05/06/11 12:50	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/06/11 12:50	50
Vinyl acetate	100	U	100	14	ug/L			05/06/11 12:50	50
Vinyl chloride	50	U	50	9.0	ug/L			05/06/11 12:50	50
Xylenes, Total	100	U	100	10	ug/L			05/06/11 12:50	50

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 12:50*	*50*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*05/06/11 12:50*	*50*
Dibromofluoromethane	*100*		*70 - 130*		*05/06/11 12:50*	*50*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/06/11 12:50*	*50*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Acetophenone	**0.13**	B	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 14:27	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 14:27	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Butyl benzyl phthalate	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Chlorophenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 14:27	1
Diallate	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,4-Dichlorobenzene	**0.41**	JB/B	0.96	0.096	ug/L	MBL	05/06/11 14:51	06/02/11 14:27	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/06/11 14:51	06/02/11 14:27	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dinitrotoluene	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,4-Dioxane	**4.0**		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 14:27	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Famphur	0.96	UL	0.96	0.15	ug/L	BSL	05/06/11 14:51	06/02/11 14:27	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorophene	480	U L	480	24	ug/L	BX	05/06/11 14:51	06/02/11 14:27	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 14:27	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 14:27	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.1	ug/L	ICL	05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
o,o',o''-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenol	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pronamide	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 14:27	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
Sulfotepp	0.96	U	0.96	0.13	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Organic Acid	*7.9*	*J*	*ug/L*		*6.24*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*11*	*J*	*ug/L*		*6.59*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*17*	*J*	*ug/L*		*6.63*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*28*	*J*	*ug/L*		*6.84*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*17*	*J*	*ug/L*		*6.87*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*110*	*J*	*ug/L*		*7.12*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*14*	*J*	*ug/L*		*8.52*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*15*	*J*	*ug/L*		*8.55*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*91*	*J*	*ug/L*		*8.69*		*05/06/11 14:51*	*06/02/11 14:27*	*1*
Unknown	*38*	*J*	*ug/L*		*10.09*		*05/06/11 14:51*	*06/02/11 14:27*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*34 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
2-Fluorophenol	*53*		*25 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
Nitrobenzene-d5	*55*		*32 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
Phenol-d5	*29*		*27 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
Terphenyl-d14	*67*		*36 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*
2,4,6-Tribromophenol	*75*		*30 - 130*	*05/06/11 14:51*	*06/02/11 14:27*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 01:53	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 00:46	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 00:46	1
Methanol	**5100**		1000	830	ug/L			05/13/11 00:46	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**120**		100	50	ug/L		05/05/11 11:21	05/11/11 14:06	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
Arsenic	**3.8**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:06	1
Barium	**760**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:06	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:06	1

Client Sample ID: MW-4
Date Collected: 04/29/11 10:45
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:06	1
Calcium	**110000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:06	1
Chromium	**4.1**	**J**	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:06	1
Cobalt	**9.5**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:06	1
Copper	**3.7**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:06	1
Iron	**61000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:06	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:06	1
Magnesium	**36000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:06	1
Manganese	**2300**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:06	1
Nickel	**4.3**	~~J~~ B	5.0	2.0	ug/L	FBL	05/05/11 11:21	05/11/11 14:06	1
Potassium	**6300**	~~B~~	1000	330	ug/L		05/05/11 11:21	05/11/11 14:06	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:06	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:06	1
Sodium	**470000**		1000	340	ug/L		05/05/11 11:21	05/11/11 07:07	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:06	1
Vanadium	**4.3**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:06	1
Zinc	**9.4**	**J**	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540000**		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	**7500**		400	300	ug/L		05/17/11 10:30	05/18/11 17:37	2
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:18	1
Nitrite as N	**12**	**J**	50	10	ug/L			04/30/11 22:18	1
Sulfate	50000	U	50000	25000	ug/L			05/23/11 12:38	10
Total Organic Carbon	**32000**		1000	500	ug/L			05/17/11 18:41	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 14:28	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 14:28	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 14:28	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 14:28	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 14:28	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 14:28	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 14:28	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 14:28	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 14:28	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 14:28	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 14:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 14:28	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:28	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 14:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 14:28	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 14:28	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 14:28	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/04/11 14:28	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 14:28	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 14:28	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 14:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 14:28	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 14:28	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 14:28	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 14:28	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 14:28	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 14:28	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 14:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 14:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:28	1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 14:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 14:28	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 14:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 14:28	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 14:28	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 14:28	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 14:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 14:28*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/04/11 14:28*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/04/11 14:28*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/04/11 14:28*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Acetophenone	**0.36**	~~JB~~ ~~B~~ J	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/06/11 14:51	06/02/11 15:23	1
Aniline	2.0	U	2.0	0.97	ug/L		05/06/11 14:51	06/02/11 15:23	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/06/11 14:51	06/02/11 15:23	1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Dichlorobenzene	**0.70**	**J B**	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/06/11 14:51	06/02/11 15:23	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/06/11 14:51	06/02/11 15:23	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Famphur	1.0	UL	1.0	0.16	ug/L	BSL	05/06/11 14:51	06/02/11 15:23	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorophene	500	UL	500	25	ug/L	BSL	05/06/11 14:51	06/02/11 15:23	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methapyrilene	200	U	200	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/06/11 14:51	06/02/11 15:23	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/06/11 14:51	06/02/11 15:23	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitroquinoline-1-oxide	2.0	U R	2.0	1.1	ug/L	ICL	05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
o,o',o"-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenol	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phorate	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
p-Phenylene diamine	200	U	200	16	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/06/11 14:51	06/02/11 15:23	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
Sulfotepp	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*6.3*	*J A J*	*ug/L*		*2.88*		*05/06/11 14:51*	*06/02/11 15:23*	*1*
Unknown	*3.0*	*J*	*ug/L*		*4.08*		*05/06/11 14:51*	*06/02/11 15:23*	*1*
Maneb	*4.9*	*J N*	*ug/L*		*10.98*	*12427-38-2*	*05/06/11 14:51*	*06/02/11 15:23*	*1*
Unknown	*4.0*		*ug/L*		*11.24*		*05/06/11 14:51*	*06/02/11 15:23*	*1*
Unknown	*13*		*ug/L*		*11.43*		*05/06/11 14:51*	*06/02/11 15:23*	*1*

Client Sample ID: EQUIPMENT BLANK

Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Octadecanoic acid, 2-methylpropyl ester	10	J N	ug/L		12.29	646-13-9	05/06/11 14:51	06/02/11 15:23	1
Tridecane, 7-hexyl-	2.6	J N	ug/L		12.33	7225-66-3	05/06/11 14:51	06/02/11 15:23	1
Unknown	2.6	J	ug/L		12.50		05/06/11 14:51	06/02/11 15:23	1
2-Methyloctadecane	2.8	J N	ug/L		13.11	0-00-0	05/06/11 14:51	06/02/11 15:23	1
Unknown	3.9	J	ug/L		15.87		05/06/11 14:51	06/02/11 15:23	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	41		34 - 130	05/06/11 14:51	06/02/11 15:23	1
2-Fluorophenol	60		25 - 130	05/06/11 14:51	06/02/11 15:23	1
Nitrobenzene-d5	41		32 - 130	05/06/11 14:51	06/02/11 15:23	1
Phenol-d5	49		27 - 130	05/06/11 14:51	06/02/11 15:23	1
Terphenyl-d14	51		36 - 130	05/06/11 14:51	06/02/11 15:23	1
2,4,6-Tribromophenol	51		30 - 130	05/06/11 14:51	06/02/11 15:23	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 03:05	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 01:58	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 01:58	1
Methanol	1000	U	1000	830	ug/L			05/13/11 01:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 07:28	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:28	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:28	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:28	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:28	1
Calcium	500	U	500	170	ug/L		05/05/11 11:21	05/11/11 07:28	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:28	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:28	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:28	1
Iron	**52**	**J**	100	44	ug/L		05/05/11 11:21	05/11/11 07:28	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:28	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 07:28	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:28	1
Nickel	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Potassium	**350**	**J B**	1000	330	ug/L		05/05/11 11:21	05/11/11 07:28	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:28	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:28	1
Sodium	**380**	**J**	500	170	ug/L		05/05/11 11:21	05/11/11 07:28	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:28	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:28	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/21/11 12:21	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: EQUIPMENT BLANK
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:22	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:22	1
Sulfate	5000	U	5000	2500	ug/L			05/23/11 11:17	1
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 19:37	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13	J	25	5.0	ug/L			05/06/11 03:26	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:26	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:26	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:26	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:26	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:26	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Diethyl ether	~~1800~~	~~E~~	10	1.0	ug/L			05/06/11 03:26	1 N
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:26	1
Iodomethane	5.0	U J	5.0	1.0	ug/L	CCL		05/06/11 03:26	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ICL		05/06/11 03:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:26	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:26	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:26	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:26	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
t-Butanol	~~3800~~	~~E~~	5.0	2.6	ug/L			05/06/11 03:26	1 N
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:26	1

* Report from dilution

TestAmerica Savannah
SM 7/6/2011

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:26	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 03:26*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/06/11 03:26*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/06/11 03:26*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 03:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	500	ug/L			05/06/11 13:19	100
Acetonitrile	4000	U	4000	1000	ug/L			05/06/11 13:19	100
Acrolein	2000	U	2000	740	ug/L			05/06/11 13:19	100
Acrylonitrile	2000	U	2000	720	ug/L			05/06/11 13:19	100
Allyl chloride	100	U	100	20	ug/L			05/06/11 13:19	100
Benzene	100	U	100	25	ug/L			05/06/11 13:19	100
Benzyl chloride	100	U	100	100	ug/L			05/06/11 13:19	100
Bromodichloromethane	100	U	100	25	ug/L			05/06/11 13:19	100
Bromoform	100	U	100	50	ug/L			05/06/11 13:19	100
Bromomethane	100	U	100	80	ug/L			05/06/11 13:19	100
2-Butanone	1000	U	1000	100	ug/L			05/06/11 13:19	100
Carbon disulfide	200	U	200	60	ug/L			05/06/11 13:19	100
Carbon tetrachloride	100	U	100	50	ug/L			05/06/11 13:19	100
Chlorobenzene	100	U	100	25	ug/L			05/06/11 13:19	100
Chloroethane	100	U	100	100	ug/L			05/06/11 13:19	100
Chloroform	100	U	100	14	ug/L			05/06/11 13:19	100
Chloromethane	100	U	100	33	ug/L			05/06/11 13:19	100
Chloroprene	100	U	100	30	ug/L			05/06/11 13:19	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			05/06/11 13:19	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			05/06/11 13:19	100
Dibromochloromethane	100	U	100	10	ug/L			05/06/11 13:19	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			05/06/11 13:19	100
1,2-Dibromoethane	100	U	100	25	ug/L			05/06/11 13:19	100
Dibromomethane	100	U	100	20	ug/L			05/06/11 13:19	100
Dichlorodifluoromethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,1-Dichloroethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,2-Dichloroethane	100	U	100	10	ug/L			05/06/11 13:19	100

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100	U	100	11	ug/L			05/06/11 13:19	100
1,2-Dichloropropane	100	U	100	13	ug/L			05/06/11 13:19	100
Diethyl ether	**1700**	**D**	1000	100	ug/L			05/06/11 13:19	100
Ethylbenzene	100	U	100	11	ug/L			05/06/11 13:19	100
Ethylene oxide	20000	U	20000	20000	ug/L			05/06/11 13:19	100
Ethyl methacrylate	100	U	100	25	ug/L			05/06/11 13:19	100
2-Hexanone	1000	U	1000	100	ug/L			05/06/11 13:19	100
Iodomethane	500	U	500	100	ug/L			05/06/11 13:19	100
Isobutyl alcohol	4000	U	4000	1100	ug/L			05/06/11 13:19	100
Methacrylonitrile	2000	U	2000	330	ug/L			05/06/11 13:19	100
Methylene Chloride	500	U	500	100	ug/L			05/06/11 13:19	100
Methyl methacrylate	100	U	100	48	ug/L			05/06/11 13:19	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	ug/L			05/06/11 13:19	100
Methyl tert-butyl ether	1000	U	1000	20	ug/L			05/06/11 13:19	100
n-Heptane	100	U	100	42	ug/L			05/06/11 13:19	100
Pentachloroethane	500	U	500	120	ug/L			05/06/11 13:19	100
Propionitrile	2000	U	2000	460	ug/L			05/06/11 13:19	100
Propylene oxide	20000	U	20000	20000	ug/L			05/06/11 13:19	100
Styrene	100	U	100	11	ug/L			05/06/11 13:19	100
t-Butanol	**3400**	**D**	500	260	ug/L			05/06/11 13:19	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			05/06/11 13:19	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			05/06/11 13:19	100
Tetrachloroethene	100	U	100	15	ug/L			05/06/11 13:19	100
Toluene	100	U	100	33	ug/L			05/06/11 13:19	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			05/06/11 13:19	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			05/06/11 13:19	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			05/06/11 13:19	100
1,2,3-Trichlorobenzene	100	U	100	35	ug/L			05/06/11 13:19	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			05/06/11 13:19	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			05/06/11 13:19	100
Trichloroethylene	100	U	100	13	ug/L			05/06/11 13:19	100
Trichlorofluoromethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			05/06/11 13:19	100
Vinyl acetate	200	U	200	28	ug/L			05/06/11 13:19	100
Vinyl chloride	100	U	100	18	ug/L			05/06/11 13:19	100
Xylenes, Total	200	U	200	20	ug/L			05/06/11 13:19	100

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 13:19*	*100*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/06/11 13:19*	*100*
Dibromofluoromethane	*102*		*70 - 130*		*05/06/11 13:19*	*100*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/06/11 13:19*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 14:55	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 14:55	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 14:55	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,4-Dichlorobenzene	**0.40**	~~J~~ B	0.95	0.095	ug/L	MBL	05/06/11 14:51	06/02/11 14:55	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 14:55	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,4-Dioxane	**5.1**		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 14:55	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Famphur	0.95	U	0.95	0.15	ug/L	BSL	05/06/11 14:51	06/02/11 14:55	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/06/11 14:51	06/02/11 14:55	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 14:55	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 14:55	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.1	ug/L	ICL	05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

Client Sample ID: MW-4U
Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 14:55	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Organic Acid	*16*	*J*	*ug/L*		*6.63*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*18*	*J*	*ug/L*		*6.84*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*19*	*J*	*ug/L*		*6.88*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*67*	*J*	*ug/L*		*7.12*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*58*	*J*	*ug/L*		*8.69*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*11*	*J*	*ug/L*		*8.77*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*10*	*J*	*ug/L*		*9.22*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*36*	*J*	*ug/L*		*10.09*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*7.9*	*J*	*ug/L*		*10.25*		*05/06/11 14:51*	*06/02/11 14:55*	*1*
Unknown	*10*	*J*	*ug/L*		*11.35*		*05/06/11 14:51*	*06/02/11 14:55*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*34 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
2-Fluorophenol	*51*		*25 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
Nitrobenzene-d5	*47*		*32 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
Phenol-d5	*33*		*27 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
Terphenyl-d14	*60*		*36 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*
2,4,6-Tribromophenol	*61*		*30 - 130*	*05/06/11 14:51*	*06/02/11 14:55*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 03:29	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 02:22	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 02:22	1
Methanol	1000	U	1000	830	ug/L			05/13/11 02:22	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**800**		100	50	ug/L		05/05/11 11:21	05/11/11 14:27	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Arsenic	**4.7**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:27	1
Barium	**810**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:27	1
Beryllium	**0.56**		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:27	1

Client Sample ID: MW-4U

Date Collected: 04/29/11 12:35
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-4

Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:27	1
Calcium	**100000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:27	1
Chromium	**11**		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:27	1
Cobalt	**31**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:27	1
Copper	**6.1**		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:27	1
Iron	**96000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:27	1
Lead	**0.86**	**J**	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:27	1
Magnesium	**43000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:27	1
Manganese	**1900**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Mercury	**0.58**	**J**	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:27	1
Nickel	**12**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Potassium	**10000**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 14:27	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:27	1
Silver	**0.48**	**J**	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:27	1
Sodium	**510000**		1000	340	ug/L		05/05/11 11:21	05/11/11 07:35	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:27	1
Vanadium	**6.2**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:27	1
Zinc	**23**		20	8.4	ug/L		05/05/11 11:21	05/11/11 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**650000**		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	**19000**		1000	750	ug/L		05/17/11 10:30	05/18/11 17:14	5
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:24	1
Nitrite as N	**22**	**J**	50	10	ug/L			04/30/11 22:24	1
Sulfate	5000	U	5000	2500	ug/L			05/23/11 11:17	1
Total Organic Carbon	**36000**		1000	500	ug/L			05/17/11 19:54	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 03:49	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:49	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:49	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:49	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:49	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:49	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:49	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:49	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:49	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:49	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:49	1
cis-1,2-Dichloroethene	**0.21**	**J**	1.0	0.15	ug/L			05/06/11 03:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:49	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
1,1-Dichloroethane	**0.83**	**J**	1.0	0.25	ug/L			05/06/11 03:49	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:49	1
1,1-Dichloroethene	**0.65**	**J**	1.0	0.11	ug/L			05/06/11 03:49	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Diethyl ether	~~2900~~	~~E~~	10	1.0	ug/L			05/06/11 03:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:49	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:49	1
Iodomethane	5.0	U J	5.0	1.0	ug/L			05/06/11 03:49	1
Isobutyl alcohol	40	U R	40	11	ug/L			05/06/11 03:49	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:49	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:49	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:49	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:49	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:49	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:49	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:49	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:49	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
t-Butanol	~~480~~	~~E~~	5.0	2.6	ug/L			05/06/11 03:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:49	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:49	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:49	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:49	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 03:49*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 03:49*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/06/11 03:49*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 03:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/06/11 13:47	50
Acetonitrile	2000	U	2000	500	ug/L			05/06/11 13:47	50
Acrolein	1000	U	1000	370	ug/L			05/06/11 13:47	50
Acrylonitrile	1000	U	1000	360	ug/L			05/06/11 13:47	50
Allyl chloride	50	U	50	10	ug/L			05/06/11 13:47	50
Benzene	50	U	50	12	ug/L			05/06/11 13:47	50
Benzyl chloride	50	U	50	50	ug/L			05/06/11 13:47	50
Bromodichloromethane	50	U	50	12	ug/L			05/06/11 13:47	50
Bromoform	50	U	50	25	ug/L			05/06/11 13:47	50
Bromomethane	50	U	50	40	ug/L			05/06/11 13:47	50
2-Butanone	500	U	500	50	ug/L			05/06/11 13:47	50
Carbon disulfide	100	U	100	30	ug/L			05/06/11 13:47	50
Carbon tetrachloride	50	U	50	25	ug/L			05/06/11 13:47	50
Chlorobenzene	50	U	50	12	ug/L			05/06/11 13:47	50
Chloroethane	50	U	50	50	ug/L			05/06/11 13:47	50
Chloroform	50	U	50	7.0	ug/L			05/06/11 13:47	50
Chloromethane	50	U	50	16	ug/L			05/06/11 13:47	50
Chloroprene	50	U	50	15	ug/L			05/06/11 13:47	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/06/11 13:47	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/06/11 13:47	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/06/11 13:47	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/06/11 13:47	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/06/11 13:47	50
Dibromomethane	50	U	50	10	ug/L			05/06/11 13:47	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/06/11 13:47	50

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/06/11 13:47	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/06/11 13:47	50
Diethyl ether	**3300**		500	50	ug/L			05/06/11 13:47	50
Ethylbenzene	50	U	50	5.5	ug/L			05/06/11 13:47	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/06/11 13:47	50
Ethyl methacrylate	50	U	50	12	ug/L			05/06/11 13:47	50
2-Hexanone	500	U	500	50	ug/L			05/06/11 13:47	50
Iodomethane	250	U	250	50	ug/L			05/06/11 13:47	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/06/11 13:47	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/06/11 13:47	50
Methylene Chloride	250	U	250	50	ug/L			05/06/11 13:47	50
Methyl methacrylate	50	U	50	24	ug/L			05/06/11 13:47	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/06/11 13:47	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/06/11 13:47	50
n-Heptane	50	U	50	21	ug/L			05/06/11 13:47	50
Pentachloroethane	250	U	250	60	ug/L			05/06/11 13:47	50
Propionitrile	1000	U	1000	230	ug/L			05/06/11 13:47	50
Propylene oxide	10000	U	10000	10000	ug/L			05/06/11 13:47	50
Styrene	50	U	50	5.5	ug/L			05/06/11 13:47	50
t-Butanol	**130**	**J**	250	130	ug/L			05/06/11 13:47	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/06/11 13:47	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/06/11 13:47	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/06/11 13:47	50
Toluene	50	U	50	16	ug/L			05/06/11 13:47	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/06/11 13:47	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/06/11 13:47	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/06/11 13:47	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/06/11 13:47	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/06/11 13:47	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/06/11 13:47	50
Trichloroethylene	50	U	50	6.5	ug/L			05/06/11 13:47	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/06/11 13:47	50
Vinyl acetate	100	U	100	14	ug/L			05/06/11 13:47	50
Vinyl chloride	50	U	50	9.0	ug/L			05/06/11 13:47	50
Xylenes, Total	100	U	100	10	ug/L			05/06/11 13:47	50

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 13:47*	*50*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 13:47*	*50*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 13:47*	*50*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/06/11 13:47*	*50*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 15:50	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 15:50	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 15:50	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,4-Dichlorobenzene	**0.30**	~~J~~ B	0.95	0.095	ug/L	MBL	05/06/11 14:51	06/02/11 15:50	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 15:50	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,4-Dioxane	**9.8**		1.9	0.29	ug/L		05/06/11 14:51	06/02/11 15:50	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Famphur	0.95	U L	0.95	0.15	ug/L	BSL	05/06/11 14:51	06/02/11 15:50	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorophene	470	U L	470	24	ug/L	RSL	05/06/11 14:51	06/02/11 15:50	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 15:50	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 15:50	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.0	ug/L	RL	05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

Client Sample ID: MW-9
Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 15:50	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*8.1*	~~J~~ *B*	*ug/L*		*2.89*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*5.8*	*J*	*ug/L*		*5.01*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*3.9*	*J*	*ug/L*		*6.02*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*6.4*	*J*	*ug/L*		*6.09*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*6.7*	*J*	*ug/L*		*6.54*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*140*	*J*	*ug/L*		*7.11*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown Organic Acid	*34*	*J*	*ug/L*		*8.65*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*3.1*	*J*	*ug/L*		*9.20*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Unknown	*8.1*	*J*	*ug/L*		*10.07*		*05/06/11 14:51*	*06/02/11 15:50*	*1*
Sulfur	*6.3*	*J N*	*ug/L*		*10.98*	*7704-34-9*	*05/06/11 14:51*	*06/02/11 15:50*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
2-Fluorophenol	*48*		*25 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
Nitrobenzene-d5	*45*		*32 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
Phenol-d5	*40*		*27 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
Terphenyl-d14	*61*		*36 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*
2,4,6-Tribromophenol	*66*		*30 - 130*	*05/06/11 14:51*	*06/02/11 15:50*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 03:53	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 02:46	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 02:46	1
Methanol	1000	U	1000	830	ug/L			05/13/11 02:46	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1500**		100	50	ug/L		05/05/11 11:21	05/11/11 07:42	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Arsenic	**4.0**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:42	1
Barium	**92**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:42	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:42	1

Client Sample ID: MW-9

Date Collected: 04/29/11 14:05
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-5

Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:42	1
Calcium	230000		500	170	ug/L		05/05/11 11:21	05/11/11 07:42	1
Chromium	8.9		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:42	1
Cobalt	2.6		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:42	1
Copper	3.1	J	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:42	1
Iron	110000		100	44	ug/L		05/05/11 11:21	05/11/11 07:42	1
Lead	1.1	J	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:42	1
Magnesium	62000		250	100	ug/L		05/05/11 11:21	05/11/11 07:42	1
Manganese	2800		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:42	1
Nickel	6.4	B	5.0	2.0	ug/L	PBL	05/05/11 11:21	05/11/11 07:42	1
Potassium	7600	B	1000	330	ug/L		05/05/11 11:21	05/11/11 07:42	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:42	1
Silver	0.42	J	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:42	1
Sodium	340000		500	170	ug/L		05/05/11 11:21	05/11/11 07:42	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:42	1
Vanadium	5.7	J	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:42	1
Zinc	14	J	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	570000		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	1600		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:25	1
Nitrite as N	12	J	50	10	ug/L			04/30/11 22:25	1
Sulfate	650000		250000	120000	ug/L			05/23/11 12:42	50
Total Organic Carbon	6900		1000	500	ug/L			05/17/11 20:50	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:12	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:12	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:12	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:12	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:12	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:12	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:12	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:12	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:12	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:12	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:12	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:12	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Diethyl ether	~~220~~	~~E~~	10	1.0	ug/L			05/06/11 04:12	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:12	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:12	1
Iodomethane	5.0	U J	5.0	1.0	ug/L	CCL		05/06/11 04:12	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/06/11 04:12	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:12	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:12	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:12	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:12	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:12	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:12	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:12	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:12	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
t-Butanol	~~170~~	~~E~~	5.0	2.6	ug/L			05/06/11 04:12	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:12	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:12	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:12	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:12	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:12	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 04:12*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/06/11 04:12*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/06/11 04:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/06/11 04:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/06/11 14:16	5
Acetonitrile	200	U	200	50	ug/L			05/06/11 14:16	5
Acrolein	100	U	100	37	ug/L			05/06/11 14:16	5
Acrylonitrile	100	U	100	36	ug/L			05/06/11 14:16	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
Benzene	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/06/11 14:16	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/06/11 14:16	5
2-Butanone	50	U	50	5.0	ug/L			05/06/11 14:16	5
Carbon disulfide	10	U	10	3.0	ug/L			05/06/11 14:16	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/06/11 14:16	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/06/11 14:16	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/06/11 14:16	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 14:16	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/06/11 14:16	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/06/11 14:16	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/06/11 14:16	5

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Diethyl ether	**200**	D	50	5.0	ug/L			05/06/11 14:16	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/06/11 14:16	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
2-Hexanone	50	U	50	5.0	ug/L			05/06/11 14:16	5
Iodomethane	25	U	25	5.0	ug/L			05/06/11 14:16	5
Isobutyl alcohol	200	U	200	55	ug/L			05/06/11 14:16	5
Methacrylonitrile	100	U	100	16	ug/L			05/06/11 14:16	5
Methylene Chloride	25	U	25	5.0	ug/L			05/06/11 14:16	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/06/11 14:16	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/06/11 14:16	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/06/11 14:16	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/06/11 14:16	5
Pentachloroethane	25	U	25	6.0	ug/L			05/06/11 14:16	5
Propionitrile	100	U	100	23	ug/L			05/06/11 14:16	5
Propylene oxide	1000	U	1000	1000	ug/L			05/06/11 14:16	5
Styrene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
t-Butanol	**150**	D	25	13	ug/L			05/06/11 14:16	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/06/11 14:16	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 14:16	5
Toluene	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/06/11 14:16	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/06/11 14:16	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/06/11 14:16	5
Vinyl acetate	10	U	10	1.4	ug/L			05/06/11 14:16	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/06/11 14:16	5
Xylenes, Total	10	U	10	1.0	ug/L			05/06/11 14:16	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 14:16*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/06/11 14:16*	*5*
Dibromofluoromethane	*98*		*70 - 130*		*05/06/11 14:16*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 14:16*	*5*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 16:18	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 16:18	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 16:18	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,4-Dichlorobenzene	**0.31**	~~JB~~ B	0.95	0.095	ug/L	MBL	05/06/11 14:51	06/02/11 16:18	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 16:18	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,4-Dioxane	**1.3**	J	1.9	0.29	ug/L		05/06/11 14:51	06/02/11 16:18	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Famphur	0.95	UL	0.95	0.15	ug/L	BSL	05/06/11 14:51	06/02/11 16:18	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorophene	470	U L	470	24	ug/L	BSL	05/06/11 14:51	06/02/11 16:18	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 16:18	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 16:18	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.0	ug/L	ICL	05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

Client Sample ID: MW-5

Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 16:18	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*	
Unknown	*21*	*J*	*ug/L*		*4.85*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	53
Unknown	*15*	*J*	*ug/L*		*4.97*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	43
Unknown	*95*	*J*	*ug/L*		*6.17*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	46
Unknown	*67*	*J*	*ug/L*		*6.61*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	0
Unknown	*49*	*J*	*ug/L*		*6.65*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	38
Unknown	*30*	*J*	*ug/L*		*7.11*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	50
Unknown	*35*	*J*	*ug/L*		*8.67*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	46
Unknown	*30*	*J*	*ug/L*		*9.25*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	0
Unknown	*24*	*J*	*ug/L*		*9.32*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	8
Unknown	*17*	*J*	*ug/L*		*10.29*		*05/06/11 14:51*	*06/02/11 16:18*	*1*	8

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*34 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
2-Fluorophenol	*52*		*25 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
Nitrobenzene-d5	*50*		*32 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
Phenol-d5	*45*		*27 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
Terphenyl-d14	*61*		*36 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*
2,4,6-Tribromophenol	*62*		*30 - 130*	*05/06/11 14:51*	*06/02/11 16:18*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 04:17	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 03:10	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 03:10	1
Methanol	1000	U	1000	830	ug/L			05/13/11 03:10	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**670**		100	50	ug/L		05/05/11 11:21	05/11/11 14:34	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Arsenic	**1.6**	**J**	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:34	1
Barium	**790**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:34	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:34	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5
Date Collected: 04/29/11 11:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:34	1
Calcium	**190000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:34	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:34	1
Cobalt	**1.6**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:34	1
Copper	**1.7**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:34	1
Iron	**53000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:34	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:34	1
Magnesium	**41000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:34	1
Manganese	**3000**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:34	1
Nickel	**2.7**	**J B**	5.0	2.0	ug/L	FBL	05/05/11 11:21	05/11/11 14:34	1
Potassium	**6700**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 14:34	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:34	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:34	1
Sodium	**760000**		2000	680	ug/L		05/05/11 11:21	05/11/11 08:17	4
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:34	1
Vanadium	**5.0**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:34	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200000**		20000	3600	ug/L			05/21/11 12:46	20
Nitrogen, Kjeldahl	**3000**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	**1000**		50	10	ug/L			04/30/11 22:26	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:26	1
Sulfate	**150000**		25000	12000	ug/L			05/23/11 12:11	5
Total Organic Carbon	**14000**		1000	500	ug/L			05/17/11 21:11	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:35	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:35	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:35	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:35	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:35	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:35	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:35	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:35	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:35	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:35	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:35	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:35	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Diethyl ether	~~780~~	~~E~~	10	1.0	ug/L			05/06/11 04:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:35	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:35	1
Iodomethane	5.0	UJ	5.0	1.0	ug/L			05/06/11 04:35	1
Isobutyl alcohol	40	R	40	11	ug/L			05/06/11 04:35	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:35	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:35	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:35	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:35	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:35	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:35	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:35	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:35	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 04:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:35	1

CCL
ICL

* Report from dilution

TestAmerica Savannah

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:35	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:35	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:35	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrahydrofuran	*2.6*	*J NJ*	*ug/L*		*3.30*	*109-99-9*		*05/06/11 04:35*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 04:35*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/06/11 04:35*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 04:35*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 04:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/06/11 14:45	20
Acetonitrile	800	U	800	200	ug/L			05/06/11 14:45	20
Acrolein	400	U	400	150	ug/L			05/06/11 14:45	20
Acrylonitrile	400	U	400	140	ug/L			05/06/11 14:45	20
Allyl chloride	20	U	20	4.0	ug/L			05/06/11 14:45	20
Benzene	20	U	20	5.0	ug/L			05/06/11 14:45	20
Benzyl chloride	20	U	20	20	ug/L			05/06/11 14:45	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
Bromoform	20	U	20	10	ug/L			05/06/11 14:45	20
Bromomethane	20	U	20	16	ug/L			05/06/11 14:45	20
2-Butanone	200	U	200	20	ug/L			05/06/11 14:45	20
Carbon disulfide	40	U	40	12	ug/L			05/06/11 14:45	20
Carbon tetrachloride	20	U	20	10	ug/L			05/06/11 14:45	20
Chlorobenzene	20	U	20	5.0	ug/L			05/06/11 14:45	20
Chloroethane	20	U	20	20	ug/L			05/06/11 14:45	20
Chloroform	20	U	20	2.8	ug/L			05/06/11 14:45	20
Chloromethane	20	U	20	6.6	ug/L			05/06/11 14:45	20
Chloroprene	20	U	20	6.0	ug/L			05/06/11 14:45	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/06/11 14:45	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/06/11 14:45	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/06/11 14:45	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/06/11 14:45	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
Dibromomethane	20	U	20	4.0	ug/L			05/06/11 14:45	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/06/11 14:45	20

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/06/11 14:45	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/06/11 14:45	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/06/11 14:45	20
Diethyl ether	650	D	200	20	ug/L			05/06/11 14:45	20
Ethylbenzene	20	U	20	2.2	ug/L			05/06/11 14:45	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/06/11 14:45	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/06/11 14:45	20
2-Hexanone	200	U	200	20	ug/L			05/06/11 14:45	20
Iodomethane	100	U	100	20	ug/L			05/06/11 14:45	20
Isobutyl alcohol	800	U	800	220	ug/L			05/06/11 14:45	20
Methacrylonitrile	400	U	400	66	ug/L			05/06/11 14:45	20
Methylene Chloride	100	U	100	20	ug/L			05/06/11 14:45	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/06/11 14:45	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/06/11 14:45	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/06/11 14:45	20
n-Heptane	20	U	20	8.4	ug/L			05/06/11 14:45	20
Pentachloroethane	100	U	100	24	ug/L			05/06/11 14:45	20
Propionitrile	400	U	400	92	ug/L			05/06/11 14:45	20
Propylene oxide	4000	U	4000	4000	ug/L			05/06/11 14:45	20
Styrene	20	U	20	2.2	ug/L			05/06/11 14:45	20
t-Butanol	100	U	100	52	ug/L			05/06/11 14:45	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/06/11 14:45	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/06/11 14:45	20
Tetrachloroethene	20	U	20	3.0	ug/L			05/06/11 14:45	20
Toluene	20	U	20	6.6	ug/L			05/06/11 14:45	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/06/11 14:45	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/06/11 14:45	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/06/11 14:45	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/06/11 14:45	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/06/11 14:45	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/06/11 14:45	20
Trichloroethylene	20	U	20	2.6	ug/L			05/06/11 14:45	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/06/11 14:45	20
Vinyl acetate	40	U	40	5.6	ug/L			05/06/11 14:45	20
Vinyl chloride	20	U	20	3.6	ug/L			05/06/11 14:45	20
Xylenes, Total	40	U	40	4.0	ug/L			05/06/11 14:45	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 14:45*	*20*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*05/06/11 14:45*	*20*
Dibromofluoromethane	*98*		*70 - 130*		*05/06/11 14:45*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 14:45*	*20*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Acenaphthylene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Acetophenone	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
alpha,alpha-Dimethyl phenethylamine	9.7	U	9.7	3.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 16:46	1
Aniline	1.9	U	1.9	0.94	ug/L		05/06/11 14:51	06/02/11 16:46	1
Anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[a]anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[a]pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[b]fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[k]fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzyl alcohol	0.97	U	0.97	0.14	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,1'-Biphenyl	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-chloroethoxy)methane	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-chloroethyl)ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Bromophenyl phenyl ether	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
Butyl benzyl phthalate	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chloro-3-methylphenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Chloronaphthalene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Chlorophenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chlorophenyl phenyl ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Chrysene	0.19	U	0.19	0.044	ug/L		05/06/11 14:51	06/02/11 16:46	1
Diallate	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dibenzofuran	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2-Dichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,3-Dichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,4-Dichlorobenzene	**0.67**	~~J~~ B	0.97	0.097	ug/L	MBL	05/06/11 14:51	06/02/11 16:46	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dichlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,6-Dichlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Diethyl phthalate	0.97	U	0.97	0.11	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
7,12-Dimethylbenz(a)anthracene	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dimethylphenol	1.9	U	1.9	0.67	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dimethyl phthalate	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Di-n-butyl phthalate	0.97	U	0.97	0.38	ug/L		05/06/11 14:51	06/02/11 16:46	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dinitrophenol	9.7	U	9.7	1.1	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dinitrotoluene	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,6-Dinitrotoluene	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
Di-n-octyl phthalate	0.97	U	0.97	0.16	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,4-Dioxane	**2.7**	✓	1.9	0.30	ug/L		05/06/11 14:51	06/02/11 16:46	1
Disulfoton	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Ethyl methanesulfonate	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Ethyl Parathion	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Famphur	0.97	U L	0.97	0.15	ug/L	RSL	05/06/11 14:51	06/02/11 16:46	1

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Fluorene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorobutadiene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachloroethane	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/06/11 14:51	06/02/11 16:46	1
Hexachloropropene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Isophorone	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Isosafrole	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
m-Dinitrobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methapyrilene	190	U	190	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
3-Methylcholanthrene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methyl methanesulfonate	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Methylnaphthalene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methyl parathion	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Methylphenol	1.9	U	1.9	0.72	ug/L		05/06/11 14:51	06/02/11 16:46	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		05/06/11 14:51	06/02/11 16:46	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
Naphthalene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,4-Naphthoquinone	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Nitroaniline	0.97	U	0.97	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Nitrobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
5-Nitro-o-toluidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Nitrophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitroquinoline-1-oxide	1.9	U K	1.9	1.1	ug/L	ICL	05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodiethylamine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodimethylamine	0.97	U	0.97	0.24	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodi-n-butylamine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodi-n-propylamine	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodiphenylamine	0.97	U	0.97	0.36	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosomorpholine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosopiperidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosopyrrolidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
o,o',o''-Triethylphosphorothioate	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
o-Toluidine	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,2'-oxybis[1-chloropropane]	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachloronitrobenzene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenacetin	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenanthrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenol	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1

Client Sample ID: MW-5U
Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenyl ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phorate	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Picoline	1.9	U	1.9	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pronamide	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pyridine	4.8	U	4.8	0.71	ug/L		05/06/11 14:51	06/02/11 16:46	1
Safrole, Total	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Sulfotepp	0.97	U	0.97	0.14	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2,4,5-Tetrachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,3,4,6-Tetrachlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Thionazin	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2,4-Trichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4,5-Trichlorophenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4,6-Trichlorophenol	0.97	U	0.97	0.16	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,3,5-Trinitrobenzene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*19*	*J*	*ug/L*		*6.12*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*180*	*J*	*ug/L*		*7.12*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*10*	*J*	*ug/L*		*8.60*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*150*	*J*	*ug/L*		*8.69*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*15*	*J*	*ug/L*		*9.04*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*80*	*J*	*ug/L*		*9.26*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown Organic Acid	*64*	*J*	*ug/L*		*9.33*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*52*	*J*	*ug/L*		*10.10*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*30*	*J*	*ug/L*		*10.53*		*05/06/11 14:51*	*06/02/11 16:46*	*1*
Unknown	*20*	*J*	*ug/L*		*10.60*		*05/06/11 14:51*	*06/02/11 16:46*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*34 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
2-Fluorophenol	*57*		*25 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
Nitrobenzene-d5	*53*		*32 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
Phenol-d5	*46*		*27 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
Terphenyl-d14	*52*		*36 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*
2,4,6-Tribromophenol	*62*		*30 - 130*	*05/06/11 14:51*	*06/02/11 16:46*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 04:40	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 03:34	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 03:34	1
Methanol	**160000**		20000	17000	ug/L			05/13/11 11:35	20

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**88**	**J**	100	50	ug/L		05/05/11 11:21	05/11/11 14:41	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
Arsenic	**5.7**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:41	1
Barium	**140**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:41	1

Client Sample ID: MW-5U

Date Collected: 04/29/11 10:40
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-7

Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:41	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:41	1
Calcium	120000		500	170	ug/L		05/05/11 11:21	05/11/11 14:41	1
Chromium	4.8	J	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:41	1
Cobalt	9.6		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:41	1
Copper	2.7	J	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:41	1
Iron	13000		100	44	ug/L		05/05/11 11:21	05/11/11 14:41	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:41	1
Magnesium	31000		250	100	ug/L		05/05/11 11:21	05/11/11 14:41	1
Manganese	2100		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
Mercury	8.0	U	8.0	4.0	ug/L		05/05/11 11:21	05/11/11 08:24	10
Nickel	8.9	B	5.0	2.0	ug/L	FB	05/05/11 11:21	05/11/11 14:41	1
Potassium	6600	B	1000	330	ug/L		05/05/11 11:21	05/11/11 14:41	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:41	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:41	1
Sodium	1900000		5000	1700	ug/L		05/05/11 11:21	05/11/11 08:24	10
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:41	1
Vanadium	240		10	3.2	ug/L		05/05/11 11:21	05/11/11 14:41	1
Zinc	10	J	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000000		50000	9000	ug/L			05/21/11 13:03	50
Nitrogen, Kjeldahl	2400		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	28	B	50	10	ug/L	FBL		04/30/11 22:30	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:30	1
Sulfate	390000		100000	50000	ug/L			05/23/11 12:40	20
Total Organic Carbon	26000		1000	500	ug/L			05/17/11 21:31	1

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 15:25	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 15:25	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 15:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 15:25	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 15:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 15:25	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 15:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 15:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 15:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 15:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 15:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 15:25	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 15:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 15:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 15:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 15:25	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/04/11 15:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 15:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 15:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 15:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 15:25	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 15:25	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 15:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 15:25	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 15:25	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 15:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 15:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 15:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:25	1

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 15:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 15:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 15:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 15:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 15:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 15:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 15:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 15:25*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/04/11 15:25*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*05/04/11 15:25*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/04/11 15:25*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Acetophenone	**0.17**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 17:14	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 17:14	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 17:14	1

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Dichlorobenzene	**0.44**	**J B**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 17:14	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Dioxane	1.9	U	1.9	0.29	ug/L		05/06/11 14:51	06/02/11 17:14	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Famphur	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorophene	470	U	470	24	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 17:14	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 17:14	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.0	ug/L	ICL	05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 17:14	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
~~2-Pentanone, 4-hydroxy-4-methyl-~~ aldol	*8.9*	*J N* A	*ug/L*		*2.90*	*123-42-2*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*2.4*	*J*	*ug/L*		*2.94*		*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*3.5*	*J*	*ug/L*		*4.09*		*05/06/11 14:51*	*06/02/11 17:14*	*1*
Sulfur, mol. (S8)	*2.1*	*J N*	*ug/L*		*10.98*	*10544-50-0*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*4.4*	*J*	*ug/L*		*11.43*		*05/06/11 14:51*	*06/02/11 17:14*	*1*
Octadecanoic acid, butyl ester	*3.7*	*J N*	*ug/L*		*12.28*	*123-95-5*	*05/06/11 14:51*	*06/02/11 17:14*	*1*

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tetracosane	*1.1*	*J N*	*ug/L*		*12.33*	*646-31-1*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Heptadecane, 9-octyl-	*1.1*	*J N*	*ug/L*		*13.11*	*7225-64-1*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*2.1*	*J*	*ug/L*		*15.88*		*05/06/11 14:51*	*06/02/11 17:14*	*1*
Unknown	*3.0*	*J*	*ug/L*		*17.21*		*05/06/11 14:51*	*06/02/11 17:14*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*34 - 130*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
2-Fluorophenol	*63*		*25 - 130*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Nitrobenzene-d5	*55*		*32 - 130*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Phenol-d5	*48*		*27 - 130*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
Terphenyl-d14	*66*		*36 - 130*	*05/06/11 14:51*	*06/02/11 17:14*	*1*
2,4,6-Tribromophenol	*56*		*30 - 130*	*05/06/11 14:51*	*06/02/11 17:14*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 05:04	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 03:58	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 03:58	1
Methanol	1000	U	1000	830	ug/L			05/13/11 03:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 08:31	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:31	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:31	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:31	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:31	1
Calcium	**380**	**J**	500	170	ug/L		05/05/11 11:21	05/11/11 08:31	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:31	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:31	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:31	1
Iron	100	U	100	44	ug/L		05/05/11 11:21	05/11/11 08:31	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:31	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 08:31	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:31	1
Nickel	**2.1**	**J**	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Potassium	1000	U	1000	330	ug/L		05/05/11 11:21	05/11/11 08:31	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:31	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:31	1
Sodium	**400**	**J**	500	170	ug/L		05/05/11 11:21	05/11/11 08:31	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:31	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:31	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/21/11 12:54	1
Nitrogen, Kjeldahl	**290**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	**1100**		50	10	ug/L			04/30/11 22:31	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD BLANK
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:31	1
Sulfate	**4200**	**J**	5000	2500	ug/L			05/23/11 11:19	1
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 21:49	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acetone	25	U	25	5.0	ug/L			05/06/11 05:21	1	
Acetonitrile	40	U	40	10	ug/L			05/06/11 05:21	1	
Acrolein	20	U	20	7.4	ug/L			05/06/11 05:21	1	
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 05:21	1	
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1	
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1	
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 05:21	1	
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1	
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1	
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 05:21	1	
2-Butanone	10	U	10	1.0	ug/L			05/06/11 05:21	1	
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 05:21	1	
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1	
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1	
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 05:21	1	
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 05:21	1	
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1	
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 05:21	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 05:21	1	
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1	
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 05:21	1	
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 05:21	1	
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1	
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1	
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1	
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1	
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 05:21	1	
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1	
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1	
Diethyl ether	~~220~~	~~E~~	10	1.0	ug/L			05/06/11 05:21	1	N
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1	
Ethylene oxide	200	U	200	200	ug/L			05/06/11 05:21	1	
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1	
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 05:21	1	
Iodomethane	5.0	U J	5.0	1.0	ug/L			05/06/11 05:21	1	
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L			05/06/11 05:21	1	
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 05:21	1	
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 05:21	1	
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 05:21	1	
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 05:21	1	
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 05:21	1	
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 05:21	1	
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 05:21	1	
Propionitrile	20	U	20	4.6	ug/L			05/06/11 05:21	1	
Propylene oxide	200	U	200	200	ug/L			05/06/11 05:21	1	
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1	
t-Butanol	~~160~~	~~E~~	5.0	2.6	ug/L			05/06/11 05:21	1	N
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 05:21	1	
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 05:21	1	

* Report from dilution

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 05:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 05:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 05:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 05:21	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 05:21	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 05:21	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 05:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 05:21*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/06/11 05:21*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*05/06/11 05:21*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 05:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/06/11 15:13	5
Acetonitrile	200	U	200	50	ug/L			05/06/11 15:13	5
Acrolein	100	U	100	37	ug/L			05/06/11 15:13	5
Acrylonitrile	100	U	100	36	ug/L			05/06/11 15:13	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
Benzene	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/06/11 15:13	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/06/11 15:13	5
2-Butanone	50	U	50	5.0	ug/L			05/06/11 15:13	5
Carbon disulfide	10	U	10	3.0	ug/L			05/06/11 15:13	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/06/11 15:13	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/06/11 15:13	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/06/11 15:13	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 15:13	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/06/11 15:13	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/06/11 15:13	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/06/11 15:13	5

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Diethyl ether	**220**	D	50	5.0	ug/L			05/06/11 15:13	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/06/11 15:13	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
2-Hexanone	50	U	50	5.0	ug/L			05/06/11 15:13	5
Iodomethane	25	U	25	5.0	ug/L			05/06/11 15:13	5
Isobutyl alcohol	200	U	200	55	ug/L			05/06/11 15:13	5
Methacrylonitrile	100	U	100	16	ug/L			05/06/11 15:13	5
Methylene Chloride	25	U	25	5.0	ug/L			05/06/11 15:13	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/06/11 15:13	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/06/11 15:13	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/06/11 15:13	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/06/11 15:13	5
Pentachloroethane	25	U	25	6.0	ug/L			05/06/11 15:13	5
Propionitrile	100	U	100	23	ug/L			05/06/11 15:13	5
Propylene oxide	1000	U	1000	1000	ug/L			05/06/11 15:13	5
Styrene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
t-Butanol	**180**	D	25	13	ug/L			05/06/11 15:13	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/06/11 15:13	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 15:13	5
Toluene	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/06/11 15:13	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/06/11 15:13	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/06/11 15:13	5
Vinyl acetate	10	U	10	1.4	ug/L			05/06/11 15:13	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/06/11 15:13	5
Xylenes, Total	10	U	10	1.0	ug/L			05/06/11 15:13	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/06/11 15:13*	*5*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/06/11 15:13*	*5*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 15:13*	*5*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/06/11 15:13*	*5*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Acetophenone	**0.10**	B	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

Client Sample ID: FIELD DUPLICATE

Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 17:42	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 17:42	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 17:42	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Dichlorobenzene	**0.39**	~~J B~~ B	0.95	0.095	ug/L	MBL	05/06/11 14:51	06/02/11 17:42	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 17:42	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/06/11 14:51	06/02/11 17:42	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Famphur	0.95	U L	0.95	0.15	ug/L	BSL	05/06/11 14:51	06/02/11 17:42	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/06/11 14:51	06/02/11 17:42	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 17:42	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 17:42	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.0	ug/L	ICL	05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 17:42	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*45*	*J*	*ug/L*		*4.96*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*55*	*J*	*ug/L*		*5.32*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*100*	*J*	*ug/L*		*6.17*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*83*	*J*	*ug/L*		*6.61*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*48*	*J*	*ug/L*		*6.65*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*36*	*J*	*ug/L*		*7.11*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*41*	*J*	*ug/L*		*8.67*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown Organic Acid	*37*	*J*	*ug/L*		*9.07*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*41*	*J*	*ug/L*		*9.25*		*05/06/11 14:51*	*06/02/11 17:42*	*1*
Unknown	*30*	*J*	*ug/L*		*9.33*		*05/06/11 14:51*	*06/02/11 17:42*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*34 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
2-Fluorophenol	*43*		*25 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
Nitrobenzene-d5	*47*		*32 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
Phenol-d5	*42*		*27 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
Terphenyl-d14	*68*		*36 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*
2,4,6-Tribromophenol	*65*		*30 - 130*	*05/06/11 14:51*	*06/02/11 17:42*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 05:28	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 04:21	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 04:21	1
Methanol	1000	U	1000	830	ug/L			05/13/11 04:21	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**610**		100	50	ug/L		05/05/11 11:21	05/11/11 14:48	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Arsenic	**1.7**	**J**	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:48	1
Barium	**780**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:48	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:48	1

Client Sample ID: FIELD DUPLICATE
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:48	1
Calcium	**180000**		500	170	ug/L		05/05/11 11:21	05/11/11 14:48	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:48	1
Cobalt	**1.5**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:48	1
Copper	**1.9**	**J**	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:48	1
Iron	**51000**		100	44	ug/L		05/05/11 11:21	05/11/11 14:48	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:48	1
Magnesium	**39000**		250	100	ug/L		05/05/11 11:21	05/11/11 14:48	1
Manganese	**2900**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:48	1
Nickel	**2.3**	~~J~~ B	5.0	2.0	ug/L	FBL	05/05/11 11:21	05/11/11 14:48	1
Potassium	**6800**	~~B~~	1000	330	ug/L		05/05/11 11:21	05/11/11 14:48	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:48	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:48	1
Sodium	**710000**		1000	340	ug/L		05/05/11 11:21	05/11/11 08:38	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:48	1
Vanadium	**4.9**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:48	1
Zinc	**12**	**J**	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100000**		20000	3600	ug/L			05/21/11 12:49	20
Nitrogen, Kjeldahl	**3300**		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	**350**		50	10	ug/L			04/30/11 22:32	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:32	1
Sulfate	**130000**		25000	12000	ug/L			05/23/11 12:09	5
Total Organic Carbon	**15000**		1000	500	ug/L			05/17/11 22:08	1

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:58	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:58	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:58	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:58	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:58	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:58	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:58	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:58	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:58	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:58	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:58	1
cis-1,2-Dichloroethene	**0.99**	**J**	1.0	0.15	ug/L			05/06/11 04:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:58	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:58	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Diethyl ether	~~5600~~	E	10	1.0	ug/L			05/06/11 04:58	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:58	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:58	1
Iodomethane	5.0	U J	5.0	1.0	ug/L			05/06/11 04:58	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L			05/06/11 04:58	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:58	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:58	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:58	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:58	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:58	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:58	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:58	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:58	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 04:58	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:58	1

CCL
ICL

N

* Report from dilution

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:58	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:58	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:58	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:58	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:58	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*8.4*	*J N*	*ug/L*		*2.01*			*05/06/11 04:58*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*05/06/11 04:58*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/06/11 04:58*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/11 04:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5000	U	5000	1000	ug/L			05/06/11 17:37	200
Acetonitrile	8000	U	8000	2000	ug/L			05/06/11 17:37	200
Acrolein	4000	U	4000	1500	ug/L			05/06/11 17:37	200
Acrylonitrile	4000	U	4000	1400	ug/L			05/06/11 17:37	200
Allyl chloride	200	U	200	40	ug/L			05/06/11 17:37	200
Benzene	200	U	200	50	ug/L			05/06/11 17:37	200
Benzyl chloride	200	U	200	200	ug/L			05/06/11 17:37	200
Bromodichloromethane	200	U	200	50	ug/L			05/06/11 17:37	200
Bromoform	200	U	200	100	ug/L			05/06/11 17:37	200
Bromomethane	200	U	200	160	ug/L			05/06/11 17:37	200
2-Butanone	2000	U	2000	200	ug/L			05/06/11 17:37	200
Carbon disulfide	400	U	400	120	ug/L			05/06/11 17:37	200
Carbon tetrachloride	200	U	200	100	ug/L			05/06/11 17:37	200
Chlorobenzene	200	U	200	50	ug/L			05/06/11 17:37	200
Chloroethane	200	U	200	200	ug/L			05/06/11 17:37	200
Chloroform	200	U	200	28	ug/L			05/06/11 17:37	200
Chloromethane	200	U	200	66	ug/L			05/06/11 17:37	200
Chloroprene	200	U	200	60	ug/L			05/06/11 17:37	200
cis-1,2-Dichloroethene	200	U	200	30	ug/L			05/06/11 17:37	200
cis-1,3-Dichloropropene	200	U	200	22	ug/L			05/06/11 17:37	200
Dibromochloromethane	200	U	200	20	ug/L			05/06/11 17:37	200
1,2-Dibromo-3-Chloropropane	200	U	200	88	ug/L			05/06/11 17:37	200
1,2-Dibromoethane	200	U	200	50	ug/L			05/06/11 17:37	200
Dibromomethane	200	U	200	40	ug/L			05/06/11 17:37	200
Dichlorodifluoromethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,1-Dichloroethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,2-Dichloroethane	200	U	200	20	ug/L			05/06/11 17:37	200

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	200	U	200	22	ug/L			05/06/11 17:37	200
1,2-Dichloropropane	200	U	200	26	ug/L			05/06/11 17:37	200
Diethyl ether	10000	D	2000	200	ug/L			05/06/11 17:37	200
Ethylbenzene	200	U	200	22	ug/L			05/06/11 17:37	200
Ethylene oxide	40000	U	40000	40000	ug/L			05/06/11 17:37	200
Ethyl methacrylate	200	U	200	50	ug/L			05/06/11 17:37	200
2-Hexanone	2000	U	2000	200	ug/L			05/06/11 17:37	200
Iodomethane	1000	U	1000	200	ug/L			05/06/11 17:37	200
Isobutyl alcohol	8000	U	8000	2200	ug/L			05/06/11 17:37	200
Methacrylonitrile	4000	U	4000	660	ug/L			05/06/11 17:37	200
Methylene Chloride	1000	U	1000	200	ug/L			05/06/11 17:37	200
Methyl methacrylate	200	U	200	96	ug/L			05/06/11 17:37	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			05/06/11 17:37	200
Methyl tert-butyl ether	2000	U	2000	40	ug/L			05/06/11 17:37	200
n-Heptane	200	U	200	84	ug/L			05/06/11 17:37	200
Pentachloroethane	1000	U	1000	240	ug/L			05/06/11 17:37	200
Propionitrile	4000	U	4000	920	ug/L			05/06/11 17:37	200
Propylene oxide	40000	U	40000	40000	ug/L			05/06/11 17:37	200
Styrene	200	U	200	22	ug/L			05/06/11 17:37	200
t-Butanol	1000	U	1000	520	ug/L			05/06/11 17:37	200
1,1,1,2-Tetrachloroethane	200	U	200	66	ug/L			05/06/11 17:37	200
1,1,2,2-Tetrachloroethane	200	U	200	36	ug/L			05/06/11 17:37	200
Tetrachloroethene	200	U	200	30	ug/L			05/06/11 17:37	200
Toluene	200	U	200	66	ug/L			05/06/11 17:37	200
trans-1,4-Dichloro-2-butene	400	U	400	100	ug/L			05/06/11 17:37	200
trans-1,2-Dichloroethene	200	U	200	40	ug/L			05/06/11 17:37	200
trans-1,3-Dichloropropene	200	U	200	42	ug/L			05/06/11 17:37	200
1,2,3-Trichlorobenzene	200	U	200	70	ug/L			05/06/11 17:37	200
1,1,1-Trichloroethane	200	U	200	100	ug/L			05/06/11 17:37	200
1,1,2-Trichloroethane	200	U	200	26	ug/L			05/06/11 17:37	200
Trichloroethylene	200	U	200	26	ug/L			05/06/11 17:37	200
Trichlorofluoromethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,2,3-Trichloropropane	200	U	200	82	ug/L			05/06/11 17:37	200
Vinyl acetate	400	U	400	56	ug/L			05/06/11 17:37	200
Vinyl chloride	200	U	200	36	ug/L			05/06/11 17:37	200
Xylenes, Total	400	U	400	40	ug/L			05/06/11 17:37	200

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Naphthalene, 1-methyl-	*3400*	*T J N*	*ug/L*		*6.58*	*90-12-0*		*05/06/11 17:37*	*200*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*05/06/11 17:37*	*200*
Dibromofluoromethane	*99*		*70 - 130*		*05/06/11 17:37*	*200*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/06/11 17:37*	*200*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 18:09	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 18:09	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-chloroethyl)ether	**0.22**	**J**	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 18:09	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,4-Dichlorobenzene	**0.29**	JB B	0.95	0.095	ug/L	MBL	05/06/11 14:51	06/02/11 18:09	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 18:09	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,4-Dioxane	**21**		1.9	0.29	ug/L		05/06/11 14:51	06/02/11 18:09	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Famphur	0.95	U L	0.95	0.15	ug/L	BSL	05/06/11 14:51	06/02/11 18:09	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorophene	470	U L	470	24	ug/L	BSL	05/06/11 14:51	06/02/11 18:09	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 18:09	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 18:09	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitroquinoline-1-oxide	1.9	U R	1.9	1.0	ug/L	ICL	05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

Client Sample ID: MW-2
Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 18:09	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*	
Unknown Aldol Condensate	*8.1*	*~~J~~ B*	*ug/L*		*2.90*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	53
Unknown	*9.3*	*~~J~~ B*	*ug/L*		*4.09*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	0
Unknown	*6.2*	*J*	*ug/L*		*4.87*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	43
Unknown	*100*	*J*	*ug/L*		*5.32*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	38
Unknown	*4.8*	*J*	*ug/L*		*6.09*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	0
Unknown	*5.6*	*J*	*ug/L*		*6.53*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	36
Unknown	*91*	*J*	*ug/L*		*7.10*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	47
Unknown	*49*	*J*	*ug/L*		*8.66*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	40
Unknown	*12*	*J*	*ug/L*		*10.07*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	42
Unknown Organic Acid	*4.0*	*J*	*ug/L*		*11.22*		*05/06/11 14:51*	*06/02/11 18:09*	*1*	83

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
2-Fluorophenol	*61*		*25 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
Nitrobenzene-d5	*57*		*32 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
Phenol-d5	*41*		*27 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
Terphenyl-d14	*71*		*36 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*
2,4,6-Tribromophenol	*73*		*30 - 130*	*05/06/11 14:51*	*06/02/11 18:09*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U *	1000	220	ug/L			05/13/11 21:08	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 04:45	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 04:45	1
Methanol	**120000**		2000	1700	ug/L			05/13/11 11:59	2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**840**		100	50	ug/L		05/05/11 11:21	05/11/11 08:45	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:45	1
Arsenic	**4.0**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:45	1
Barium	**180**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:45	1
Beryllium	**0.63**		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:45	1

Client Sample ID: MW-2

Date Collected: 04/29/11 14:30
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10

Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.16**	**J**	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:45	1
Calcium	**260000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:45	1
Chromium	**3.4**	**J**	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:45	1
Cobalt	**33**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:45	1
Copper	**12**		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:45	1
Iron	**150000**		100	44	ug/L		05/05/11 11:21	05/11/11 08:45	1
Lead	**0.60**	**J**	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:45	1
Magnesium	**88000**		250	100	ug/L		05/05/11 11:21	05/11/11 08:45	1
Manganese	**9600**		10	4.0	ug/L		05/05/11 11:21	05/12/11 13:54	2
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:45	1
Nickel	**7.5**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:45	1
Potassium	**5000**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 08:45	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:45	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:45	1
Sodium	**380000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:45	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:45	1
Vanadium	**3.8**	**J**	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:45	1
Zinc	**31**		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000000**		20000	3600	ug/L			05/21/11 12:49	20
Nitrogen, Kjeldahl	**990**		200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1
Nitrate as N	**150**		50	10	ug/L			04/30/11 22:33	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:33	1
Sulfate	**420000**		100000	50000	ug/L			05/23/11 12:42	20
Total Organic Carbon	**4800**		1000	500	ug/L			05/17/11 22:28	1

Client Sample ID: TRIP BLANK 4
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 14:56	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 14:56	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 14:56	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 14:56	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 14:56	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 14:56	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 14:56	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 14:56	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 14:56	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 14:56	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 14:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 14:56	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:56	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 14:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 14:56	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 14:56	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 14:56	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ICL		05/04/11 14:56	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 14:56	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 14:56	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 14:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 14:56	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 14:56	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 14:56	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 14:56	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 14:56	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 14:56	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 14:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 14:56	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:56	1

5/6/2011

Client Sample ID: TRIP BLANK 4
Date Collected: 04/29/11 00:00
Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 14:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 14:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 14:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 14:56	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 14:56	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 14:56	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 14:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/11 14:56*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/04/11 14:56*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/04/11 14:56*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/11 14:56*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U L	1000	220	ug/L	HT		05/13/11 21:32	1
Ethanol	1000	~~U H~~ R	1000	330	ug/L			06/07/11 16:31	1
Isopropanol	1000	~~U H~~ |	1000	300	ug/L			06/07/11 16:31	1
Methanol	1000	~~U H~~ |	1000	830	ug/L			06/07/11 16:31	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/07/11 15:55	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 15:55	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 15:55	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 15:55	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 15:55	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 15:55	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 15:55	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 15:55	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 15:55	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 15:55	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 15:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 15:55	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
1,1-Dichloroethane	**0.95**	**J**	1.0	0.25	ug/L			05/07/11 15:55	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:55	1
1,1-Dichloroethene	**0.39**	**J**	1.0	0.11	ug/L			05/07/11 15:55	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 15:55	1
Diethyl ether	~~1800~~	~~E~~	10	1.0	ug/L			05/07/11 15:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 15:55	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 15:55	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 15:55	1
Isobutyl alcohol	40	~~U~~ R	40	11	ug/L	ICL		05/07/11 15:55	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 15:55	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 15:55	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 15:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 15:55	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 15:55	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 15:55	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 15:55	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 15:55	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 15:55	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 15:55	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 15:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:55	1

* Report from dilution

TestAmerica Savannah

7/6/2011

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 15:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 15:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 15:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 15:55	1
Trichloroethylene	**0.15**	**J**	1.0	0.13	ug/L			05/07/11 15:55	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 15:55	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 15:55	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 15:55	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 15:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/07/11 15:55*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*05/07/11 15:55*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*05/07/11 15:55*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/07/11 15:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/08/11 17:04	50
Acetonitrile	2000	U	2000	500	ug/L			05/08/11 17:04	50
Acrolein	1000	U	1000	370	ug/L			05/08/11 17:04	50
Acrylonitrile	1000	U	1000	360	ug/L			05/08/11 17:04	50
Allyl chloride	50	U	50	10	ug/L			05/08/11 17:04	50
Benzene	50	U	50	12	ug/L			05/08/11 17:04	50
Benzyl chloride	50	U	50	50	ug/L			05/08/11 17:04	50
Bromodichloromethane	50	U	50	12	ug/L			05/08/11 17:04	50
Bromoform	50	U	50	25	ug/L			05/08/11 17:04	50
Bromomethane	50	U	50	40	ug/L			05/08/11 17:04	50
2-Butanone	500	U	500	50	ug/L			05/08/11 17:04	50
Carbon disulfide	100	U	100	30	ug/L			05/08/11 17:04	50
Carbon tetrachloride	50	U	50	25	ug/L			05/08/11 17:04	50
Chlorobenzene	50	U	50	12	ug/L			05/08/11 17:04	50
Chloroethane	50	U	50	50	ug/L			05/08/11 17:04	50
Chloroform	50	U	50	7.0	ug/L			05/08/11 17:04	50
Chloromethane	50	U	50	16	ug/L			05/08/11 17:04	50
Chloroprene	50	U	50	15	ug/L			05/08/11 17:04	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/08/11 17:04	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/08/11 17:04	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/08/11 17:04	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/08/11 17:04	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/08/11 17:04	50
Dibromomethane	50	U	50	10	ug/L			05/08/11 17:04	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/08/11 17:04	50

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/08/11 17:04	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/08/11 17:04	50
Diethyl ether	1700	D	500	50	ug/L			05/08/11 17:04	50
Ethylbenzene	50	U	50	5.5	ug/L			05/08/11 17:04	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/08/11 17:04	50
Ethyl methacrylate	50	U	50	12	ug/L			05/08/11 17:04	50
2-Hexanone	500	U	500	50	ug/L			05/08/11 17:04	50
Iodomethane	250	U	250	50	ug/L			05/08/11 17:04	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/08/11 17:04	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/08/11 17:04	50
Methylene Chloride	250	U	250	50	ug/L			05/08/11 17:04	50
Methyl methacrylate	50	U	50	24	ug/L			05/08/11 17:04	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/08/11 17:04	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/08/11 17:04	50
n-Heptane	50	U	50	21	ug/L			05/08/11 17:04	50
Pentachloroethane	250	U	250	60	ug/L			05/08/11 17:04	50
Propionitrile	1000	U	1000	230	ug/L			05/08/11 17:04	50
Propylene oxide	10000	U	10000	10000	ug/L			05/08/11 17:04	50
Styrene	50	U	50	5.5	ug/L			05/08/11 17:04	50
t-Butanol	250	U	250	130	ug/L			05/08/11 17:04	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/08/11 17:04	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/08/11 17:04	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/08/11 17:04	50
Toluene	50	U	50	16	ug/L			05/08/11 17:04	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/08/11 17:04	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/08/11 17:04	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/08/11 17:04	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/08/11 17:04	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/08/11 17:04	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/08/11 17:04	50
Trichloroethylene	50	U	50	6.5	ug/L			05/08/11 17:04	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/08/11 17:04	50
Vinyl acetate	100	U	100	14	ug/L			05/08/11 17:04	50
Vinyl chloride	50	U	50	9.0	ug/L			05/08/11 17:04	50
Xylenes, Total	100	U	100	10	ug/L			05/08/11 17:04	50

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/08/11 17:04*	*50*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/08/11 17:04*	*50*
Dibromofluoromethane	*98*		*70 - 130*		*05/08/11 17:04*	*50*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/08/11 17:04*	*50*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 18:37	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 18:37	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 18:37	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,4-Dichlorobenzene	**0.37**	JB / B	0.95	0.095	ug/L	MBL	05/06/11 14:51	06/02/11 18:37	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 18:37	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,4-Dioxane	**9.6**		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 18:37	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Famphur	0.95	UL	0.95	0.15	ug/L	BSL	05/06/11 14:51	06/02/11 18:37	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorophene	480	U L	480	24	ug/L	BSL	05/06/11 14:51	06/02/11 18:37	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 18:37	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 18:37	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitroquinoline-1-oxide	1.9	~~U~~ R	1.9	1.1	ug/L	RL	05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
o,o',o''-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
p-Phenylene diamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 18:37	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
Sulfotepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown Aldol Condensate	*2.6*	~~TAJ~~ A	*ug/L*		*2.95*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*1.5*	TJ	*ug/L*		*5.23*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*1.1*	TJ	*ug/L*		*5.47*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*40*	TJ	*ug/L*		*7.09*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Diethyltoluamide	*2.0*	TJN	*ug/L*		*8.45*	*134-62-3*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*4.2*	TJ	*ug/L*		*8.65*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Sulfur, mol. (S8)	*7.6*	TJN	*ug/L*		*10.98*	*10544-50-0*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Oleic Acid	*5.2*	TJN	*ug/L*		*11.22*	*112-80-1*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Unknown	*3.8*	~~T~~ B	*ug/L*		*11.43*		*05/06/11 14:51*	*06/02/11 18:37*	*1*
Octadecanoic acid, 2-methylpropyl ester	*2.8*	TJN	*ug/L*		*12.28*	*646-13-9*	*05/06/11 14:51*	*06/02/11 18:37*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
2-Fluorophenol	*58*		*25 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Nitrobenzene-d5	*58*		*32 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Phenol-d5	*49*		*27 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
Terphenyl-d14	*73*		*36 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*
2,4,6-Tribromophenol	*74*		*30 - 130*	*05/06/11 14:51*	*06/02/11 18:37*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	~~U H~~ L	1000	220	ug/L	HT		05/26/11 16:00	1
Ethanol	**1700**	~~H~~ L	1000	330	ug/L	↓		05/17/11 17:26	1
Isopropanol	1000	~~U H~~ L	1000	300	ug/L			05/17/11 17:26	1
Methanol	1000	~~U H~~ L	1000	830	ug/L			05/17/11 17:26	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**60**	~~J~~	100	50	ug/L		05/05/11 11:21	05/11/11 08:52	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:52	1
Barium	**65**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:52	1
Beryllium	**0.16**	J	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:52	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: MW-1
Date Collected: 05/02/11 09:25
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:52	1
Calcium	**180000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:52	1
Chromium	**14**		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:52	1
Cobalt	**1.1**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:52	1
Copper	**10**		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:52	1
Iron	**8600**		100	44	ug/L		05/05/11 11:21	05/11/11 08:52	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:52	1
Magnesium	**50000**		250	100	ug/L		05/05/11 11:21	05/11/11 08:52	1
Manganese	**3000**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:52	1
Nickel	**9.5**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Potassium	**4400**	B	1000	330	ug/L		05/05/11 11:21	05/11/11 08:52	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:52	1
Silver	**0.36**	J	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:52	1
Sodium	**260000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:52	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:52	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:52	1
Zinc	**31**		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220000**		5000	900	ug/L			05/21/11 12:55	5
Nitrogen, Kjeldahl	**280**		200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1
Nitrate as N	**19**	J	50	10	ug/L			05/03/11 18:30	1
Nitrite as N	50	U	50	10	ug/L			05/03/11 18:30	1
Sulfate	**710000**		250000	120000	ug/L			05/23/11 12:42	50
Total Organic Carbon	**3700**		1000	500	ug/L			05/17/11 22:46	1

Client Sample Results

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.1**	**J**	25	5.0	ug/L			05/07/11 16:24	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 16:24	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 16:24	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 16:24	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 16:24	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 16:24	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 16:24	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 16:24	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 16:24	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 16:24	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 16:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 16:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 16:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 16:24	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 16:24	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Diethyl ether	**1.4**	**J**	10	1.0	ug/L			05/07/11 16:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 16:24	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 16:24	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 16:24	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/07/11 16:24	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 16:24	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 16:24	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 16:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 16:24	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 16:24	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 16:24	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 16:24	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 16:24	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 16:24	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
t-Butanol	☆ ~~370 E~~		5.0	2.6	ug/L			05/07/11 16:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 16:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 16:24	1

N

☆ Report from dilution

TestAmerica Savannah

SMK 7/6/2011

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 16:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 16:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 16:24	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 16:24	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 16:24	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 16:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/07/11 16:24*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*05/07/11 16:24*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*05/07/11 16:24*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/07/11 16:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	50	ug/L			05/08/11 17:32	10
Acetonitrile	400	U	400	100	ug/L			05/08/11 17:32	10
Acrolein	200	U	200	74	ug/L			05/08/11 17:32	10
Acrylonitrile	200	U	200	72	ug/L			05/08/11 17:32	10
Allyl chloride	10	U	10	2.0	ug/L			05/08/11 17:32	10
Benzene	10	U	10	2.5	ug/L			05/08/11 17:32	10
Benzyl chloride	10	U	10	10	ug/L			05/08/11 17:32	10
Bromodichloromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
Bromoform	10	U	10	5.0	ug/L			05/08/11 17:32	10
Bromomethane	10	U	10	8.0	ug/L			05/08/11 17:32	10
2-Butanone	100	U	100	10	ug/L			05/08/11 17:32	10
Carbon disulfide	20	U	20	6.0	ug/L			05/08/11 17:32	10
Carbon tetrachloride	10	U	10	5.0	ug/L			05/08/11 17:32	10
Chlorobenzene	10	U	10	2.5	ug/L			05/08/11 17:32	10
Chloroethane	10	U	10	10	ug/L			05/08/11 17:32	10
Chloroform	10	U	10	1.4	ug/L			05/08/11 17:32	10
Chloromethane	10	U	10	3.3	ug/L			05/08/11 17:32	10
Chloroprene	10	U	10	3.0	ug/L			05/08/11 17:32	10
cis-1,2-Dichloroethene	10	U	10	1.5	ug/L			05/08/11 17:32	10
cis-1,3-Dichloropropene	10	U	10	1.1	ug/L			05/08/11 17:32	10
Dibromochloromethane	10	U	10	1.0	ug/L			05/08/11 17:32	10
1,2-Dibromo-3-Chloropropane	10	U	10	4.4	ug/L			05/08/11 17:32	10
1,2-Dibromoethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
Dibromomethane	10	U	10	2.0	ug/L			05/08/11 17:32	10
Dichlorodifluoromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,2-Dichloroethane	10	U	10	1.0	ug/L			05/08/11 17:32	10

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	10	U	10	1.1	ug/L			05/08/11 17:32	10
1,2-Dichloropropane	10	U	10	1.3	ug/L			05/08/11 17:32	10
Diethyl ether	100	U	100	10	ug/L			05/08/11 17:32	10
Ethylbenzene	10	U	10	1.1	ug/L			05/08/11 17:32	10
Ethylene oxide	2000	U	2000	2000	ug/L			05/08/11 17:32	10
Ethyl methacrylate	10	U	10	2.5	ug/L			05/08/11 17:32	10
2-Hexanone	100	U	100	10	ug/L			05/08/11 17:32	10
Iodomethane	50	U	50	10	ug/L			05/08/11 17:32	10
Isobutyl alcohol	400	U	400	110	ug/L			05/08/11 17:32	10
Methacrylonitrile	200	U	200	33	ug/L			05/08/11 17:32	10
Methylene Chloride	50	U	50	10	ug/L			05/08/11 17:32	10
Methyl methacrylate	10	U	10	4.8	ug/L			05/08/11 17:32	10
4-Methyl-2-pentanone (MIBK)	100	U	100	10	ug/L			05/08/11 17:32	10
Methyl tert-butyl ether	100	U	100	2.0	ug/L			05/08/11 17:32	10
n-Heptane	10	U	10	4.2	ug/L			05/08/11 17:32	10
Pentachloroethane	50	U	50	12	ug/L			05/08/11 17:32	10
Propionitrile	200	U	200	46	ug/L			05/08/11 17:32	10
Propylene oxide	2000	U	2000	2000	ug/L			05/08/11 17:32	10
Styrene	10	U	10	1.1	ug/L			05/08/11 17:32	10
t-Butanol	370	D	50	26	ug/L			05/08/11 17:32	10
1,1,1,2-Tetrachloroethane	10	U	10	3.3	ug/L			05/08/11 17:32	10
1,1,2,2-Tetrachloroethane	10	U	10	1.8	ug/L			05/08/11 17:32	10
Tetrachloroethene	10	U	10	1.5	ug/L			05/08/11 17:32	10
Toluene	10	U	10	3.3	ug/L			05/08/11 17:32	10
trans-1,4-Dichloro-2-butene	20	U	20	5.0	ug/L			05/08/11 17:32	10
trans-1,2-Dichloroethene	10	U	10	2.0	ug/L			05/08/11 17:32	10
trans-1,3-Dichloropropene	10	U	10	2.1	ug/L			05/08/11 17:32	10
1,2,3-Trichlorobenzene	10	U	10	3.5	ug/L			05/08/11 17:32	10
1,1,1-Trichloroethane	10	U	10	5.0	ug/L			05/08/11 17:32	10
1,1,2-Trichloroethane	10	U	10	1.3	ug/L			05/08/11 17:32	10
Trichloroethylene	10	U	10	1.3	ug/L			05/08/11 17:32	10
Trichlorofluoromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,2,3-Trichloropropane	10	U	10	4.1	ug/L			05/08/11 17:32	10
Vinyl acetate	20	U	20	2.8	ug/L			05/08/11 17:32	10
Vinyl chloride	10	U	10	1.8	ug/L			05/08/11 17:32	10
Xylenes, Total	20	U	20	2.0	ug/L			05/08/11 17:32	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/08/11 17:32*	*10*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*05/08/11 17:32*	*10*
Dibromofluoromethane	*96*		*70 - 130*		*05/08/11 17:32*	*10*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/08/11 17:32*	*10*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U H	1000	220	ug/L			05/26/11 16:24	1
Ethanol	1000	U H	1000	330	ug/L			05/17/11 17:50	1
Isopropanol	1000	U H	1000	300	ug/L			05/17/11 17:50	1
Methanol	1000	U H	1000	830	ug/L			05/17/11 17:50	1

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**44000**		100	50	ug/L		05/05/11 11:21	05/11/11 08:59	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Arsenic	**15**		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:59	1
Barium	**230**		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:59	1
Beryllium	**2.2**		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:59	1
Cadmium	**0.20**	**J**	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:59	1
Calcium	**7900**		500	170	ug/L		05/05/11 11:21	05/11/11 08:59	1
Chromium	**78**		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:59	1
Cobalt	**14**		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:59	1
Copper	**60**		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:59	1
Iron	**54000**		100	44	ug/L		05/05/11 11:21	05/11/11 08:59	1
Lead	**34**		1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:59	1
Magnesium	**6000**		250	100	ug/L		05/05/11 11:21	05/11/11 08:59	1
Manganese	**370**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:59	1
Nickel	**27**		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Potassium	**2100**	**B**	1000	330	ug/L		05/05/11 11:21	05/11/11 08:59	1
Selenium	**1.2**	**J**	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:59	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:59	1
Sodium	**120000**		500	170	ug/L		05/05/11 11:21	05/11/11 08:59	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:59	1
Vanadium	**130**		10	3.2	ug/L		05/05/11 11:21	05/11/11 08:59	1
Zinc	**61**		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:59	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**170**		50	23	ug/L		05/05/11 12:02	05/11/11 12:42	1
Antimony	5.0	U	5.0	2.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Arsenic	**2.6**		2.5	1.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Barium	**39**		5.0	1.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Beryllium	0.50	U	0.50	0.25	ug/L		05/05/11 12:02	05/11/11 12:42	1
Cadmium	0.50	U	0.50	0.095	ug/L		05/05/11 12:02	05/11/11 12:42	1
Calcium	**24000**		250	130	ug/L		05/05/11 12:02	05/11/11 12:42	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 12:02	05/11/11 12:42	1
Cobalt	**0.73**		0.50	0.15	ug/L		05/05/11 12:02	05/11/11 12:42	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 12:02	05/11/11 12:42	1
Iron	**4200**		100	33	ug/L		05/05/11 12:02	05/11/11 12:42	1
Lead	**0.26**	**J**	1.5	0.20	ug/L		05/05/11 12:02	05/11/11 12:42	1
Magnesium	**8900**		250	43	ug/L		05/05/11 12:02	05/11/11 12:42	1
Manganese	**520**		5.0	1.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 12:02	05/11/11 12:42	1
Nickel	**5.2**		5.0	2.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Potassium	**1000**		500	170	ug/L		05/05/11 12:02	05/11/11 12:42	1
Selenium	2.5	U	2.5	1.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Silver	1.0	U	1.0	0.25	ug/L		05/05/11 12:02	05/11/11 12:42	1
Sodium	**140000**		500	250	ug/L		05/05/11 12:02	05/11/11 12:42	1
Thallium	1.0	U	1.0	0.50	ug/L		05/05/11 12:02	05/11/11 12:42	1
Vanadium	**5.0**	**J**	10	3.8	ug/L		05/05/11 12:02	05/11/11 12:42	1
Zinc	**14**	**J**	20	8.3	ug/L		05/05/11 12:02	05/11/11 12:42	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: NAT-4
Date Collected: 05/02/11 09:55
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8700		2000	360	ug/L			05/21/11 13:04	2
Nitrogen, Kjeldahl	5500		400	300	ug/L		05/17/11 11:00	05/18/11 17:37	2
Nitrate as N	1100		50	10	ug/L			05/03/11 18:35	1
Nitrite as N	80		50	10	ug/L			05/03/11 18:35	1
Sulfate	51000		10000	5000	ug/L			05/23/11 12:40	2
Total Organic Carbon	9500		1000	500	ug/L			05/17/11 23:05	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: Trip Blank
Date Collected: 05/02/11 00:00
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/07/11 15:26	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 15:26	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 15:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 15:26	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 15:26	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 15:26	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 15:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 15:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 15:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 15:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 15:26	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Diethyl ether	10	U	10	1.0	ug/L			05/07/11 15:26	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 15:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 15:26	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 15:26	1
Isobutyl alcohol	40	U R	40	11	ug/L	ICL		05/07/11 15:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 15:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 15:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 15:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 15:26	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 15:26	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 15:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 15:26	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 15:26	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 15:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 15:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 15:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:26	1

Client: Ashland Inc.
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1
SDG: HAQ036

Client Sample ID: Trip Blank
Date Collected: 05/02/11 00:00
Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 15:26	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 15:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 15:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 15:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 15:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 15:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/07/11 15:26*	*1*

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*05/07/11 15:26*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*05/07/11 15:26*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/07/11 15:26*	*1*

ATTACHMENT J

GROUNDWATER TRENDING TABLES

Attachment J
Groundwater Trending Tables, Whitewater Lagoons
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Analyte (µg/L)	*tert*- Butyl alcohol	Diethyl ether	Chloroform	Methylene chloride	1,1,2,2-Tetrachloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Tetrachloroethene	Trichloroethylene (TCE)	1,4-dioxane	bis(2-chloroethyl) ether	bis(2-ethylhexyl) phthalate	Methanol	2-Butoxyethanol
		Tapwater	12	730	0.19	4.8	0.067	34	0.15	0.11	2	0.67	0.012	4.8	1,800	~
		MCL	~	~	80	5	~	7	5	5	5	~	~	6	~	~
WWL-1	11-2002		410	56	<1	8.6	<1	<1	<1	<1	<1	<200	<9.5	<9.5	<5,000	34,000
	6/4/2007		190	93	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.7 U	9.7 U	1,000	---
	4/27/2011		330	100	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	---	---	---	1000 U	---
WWL-2	11-2002		170	<4	<1	11	<1	<1	<1	<1	<1	<200	<9.5	5.8 J	<5,000	<5,000
	6/4/2007		37	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4 U	9.4 U	9.4 U	1,500	---
	4/27/2011		73	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U	---
WWL-3L	11-2002		590	3,900 D	<1	2.7	<1	0.44 J	1.9	<1	0.41 J	<200	0.55 J	<9.7	<5,000	<5,000
	6/4/2007		50 U	8,200	10 U	50 U	10 U	10 U	10 U	10 U	10 U	33	9.7 U	9.7 U	1,900	---
	4/27/2011		500 U	8,100	100 U	500 U	100 U	100 U	100 U	100 U	100 U	18	0.96 U	1.9 U	1000 U	---
WWL-3U	11-2002		<25	4,600 D	0.56 J	10	<1	0.67 J	0.81 J	<1	<1	<200	<9.5	<9.5	<5,000	<5,000
	6/4/2007		5.0 U	2,700	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	15	9.7 U	9.7 U	1,600	---
	4/27/2011		30 J	810	10 U	50 U	10 U	10 U	10 U	10 U	10 U	3.2	0.96 U	1.9 U	1000 U	---

Well ID	Sampling Date	Analyte (µg/L)	Antimony	Arsenic	Barium	Cadmium	Chromium	Cobalt	Iron	Manganese	Nickel	Thallium	Vanadium
		Tapwater	1.5	0.045	730	1.8	~	1.1	2,600	88	73	0.037	18
		MCL	6	10	2,000	5	100	~	~	~	~	2	~
WWL-1	11-2002		< 10	<10	640	<2	3.4 B	2.5 B	71,800	1,500	2.9 B	<10	<50
	6/4/2007		2.5 U	1.4 J	840	0.50 U	5.1	4.8	110,000	2,800	5.0	1.0 U	5.0 U
	4/27/2011		2.2 J	1.8 J	520	0.29 J	4.9 J	2.1	110,000	3,200	5.5	1.0 U	10 U
WWL-2	11-2002		< 10	3.6 B J	660	<2	4.8 B	33 B	440	8,600	12 B	13 J	<50
	6/4/2007		2.5 U	4.8	1,600	0.50 U	5.5	77	14,000	16,000	21	1.0 U	5.0 U
	4/27/2011		5.0 U	5	2,100	0.28 J	7.1	110	13,000	31,000	27	1.0 U	4.4 J
WWL-3L	11-2002		< 10	4.1 B J	74 B	<2	4.8 B	110	183,000	12,600	20 B	<10	<50
	6/4/2007		2.5 U	1.8 J	33	0.14 J	12	73	180,000	9,700	22	1.0 U	5.0 U
	4/27/2011		5.0 U	2 J	33	0.39 J	2.6 J	65	170,000	13,000	12	1.0 U	10 U
WWL-3U	11-2002		< 10	<10	32 B	<2	32	100	46,000	8,600	35 B	5.2 B J	3.0 B
	6/4/2007		2.5 U	1.2 J	34	0.50 U	6.8	79	79,000	8,900	9.8	0.31 J	5.0 U
	4/27/2011		5.0 U	1.8 J	35	0.4 J	5.2	48	72,000	8,800	7	1.0 U	3.5 J

Attachment J
Groundwater Trending Tables, Old Lanfill and Landfill #156
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Analyte (µg/L)	*tert*- Butyl alcohol	Diethyl ether	Chloroform	Methylene chloride	1,1,2,2-Tetrachloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Tetrachloroethene	Trichloroethylene (TCE)	1,4-dioxane	bis(2-chloroethyl) ether	bis(2-ethylhexyl) phthalate	Methanol
		Tapwater	12	730	0.19	4.8	0.067	2.4	34	0.15	0.11	2	0.67	0.012	4.8	1,800
		MCL	~	~	80	5	~	~	7	5	5	5	~	~	6	~
LF-1	11-2002		**200**	**440 D**	<1	**2.7**	<1	<1	<1	<1	<1	<1	<200	<9.5	<9.5	<5,000
	6/5/2007		**48**	**200**	1.0 U	5.0 U	1.0 U	**1.1**	**0.99 J**	1.0 U	1.0 U	1.0 U	**2.4 J**	9.6 U	9.6 U	1000 U
	4/27/2011		**44**	**78**	1.0 U	5.0 U	1.0 U	**2.4**	**2.5**	1.0 U	1.0 U	**0.62 J**	**2.3**	0.95 U	1.9 U	1000 U
LF-2	11-2002		<25	**19**	<1	**7.6**	<1	<1	<1	<1	<1	<1	<200	<9.5	**4 J B**	<5,000
	6/6/2007		**19**	**14**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4 U	9.4 U	9.4 U	1000 U
	4/27/2011		**30**	**30**	1.0 U	5.0 U	1.0 U	**0.28 J**	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	**2600**
LF-3	11-2002		**7,500 B D**	**17**	<1	**10**	<1	<1	<1	<1	<1	<1	**84 J**	<9.5	<9.5	<5,000
	6/5/2007		**680**	**7.4 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**24**	9.8 U	9.8 U	1000 U
	4/27/2011		**300**	**5.9 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**14**	0.95 U	1.9 U	**1700**
LF-4	11-2002		**740 #**	<4	<1	**8.5**	<1	<1	<1	<1	<1	<1	<200	<9.5	**4.7 J B**	<5,000
	6/5/2007		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.7 U	9.7 U	1000 U
	4/27/2011		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9 U	0.95 U	1.9 U	1000 U
LF-5	11-2002		<25	**16**	<1	**8.6**	<1	<1	<1	<1	<1	<1	<200	<9.7	<9.7	<5,000
	6/5/2007		**22**	**24**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.7 U	9.7 U	1000 U
	4/27/2011		**12**	**35**	1.0 U	5.0 U	1.0 U	**0.3 J**	**0.12 J**	1.0 U	1.0 U	1.0 U	**0.83 J**	1.0 U	**1.2 J**	1000 U

Well ID	Sampling Date	Analyte (µg/L)	Arsenic	Barium	Cadmium	Chromium	Cobalt	Iron	Manganese	Nickel	Thallium	Vanadium
		Tapwater	0.045	730	1.8	~	1.1	2,600	88	73	0.037	18
		MCL	10	2,000	5	100	~	~	~	~	2	~
LF-1	11-2002		<10	**250**	<2	**1.6 B**	<50	**7,800**	**1,500**	<40	<10	<50
	6/5/2007		2.5 U	**130**	0.50 U	**2.7 J**	**0.53**	**10,000**	**1,600**	**1.4**	1.0 U	5.0 U
	4/27/2011		2.5 U	**120**	**0.91**	**2.6 J**	**0.37 J**	**8,200**	**1,700**	**2.4 J**	1.0 U	10 U
LF-2	11-2002		<10	**96 B**	<2	<5	<50	**4,400**	**900**	**1.9 B**	<10	<50
	6/6/2007		**0.58 B**	**84**	0.50 U	**0.63 J**	**0.34 J**	**4,300**	**900**	**1.0**	1.0 U	5.0 U
	4/27/2011		2.5 U	**91**	**6.4**	5.0 U	**0.55**	**6,000**	**970**	**4 J**	1.0 U	10 U
LF-3	11-2002		<10	**120 B**	<2	**3.3 B**	**24 B**	**1,600**	**10,900**	**21 B**	<10	<50
	6/5/2007		**0.68 J**	**150**	0.50 U	**3.8 J**	**5.9**	**4,000**	**3,000**	**7.7**	1.0 U	**3.2 J**
	4/27/2011		2.5 U	**190**	**0.55**	**3 J**	**12**	**4,400**	**6,100**	**16**	1.0 U	**3.9 J**
LF-4	11-2002		<10	**86 B**	<2	<5	<50	**730**	**260**	**1.5 B**	<10	**1.7 B**
	6/5/2007		2.5 U	**71**	0.50 U	5.0 U	**0.26 J**	**810**	**280**	**0.72 J**	1.0 U	5.0 U
	4/27/2011		2.5 U	**76**	0.50 U	5.0 U	**0.16 J**	**2,300**	**290**	5.0 U	1.0 U	10 U
LF-5	11-2002		<10	**150 B**	<2	**3.4 B**	<50	**4,500**	**1,000**	<40	<10	<50
	6/5/2007		2.5 U	**130**	0.50 U	**4.2 J**	**1**	**5,100**	**1,100**	**3.9**	1.0 U	5.0 U
	4/27/2011		2.5 U	**140**	0.50 U	5.0 U	**0.36 J**	**4,200**	**980**	**2.5 J**	1.0 U	10 U

Attachment J
Groundwater Trending Tables, Natrosol Lagoon
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Analyte (µg/L)	*tert*- Butyl alcohol (t-Butanol)	Diethyl ether	Chloroform	Methylene chloride	1,1,2,2-Tetrachloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Tetrachloroethene	Trichloroethylene (TCE)	1,4-dioxane	bis(2-chloroethyl) ether	bis(2-ethylhexyl) phthalate	Methanol
		Tapwater	12	730	0.19	4.8	0.067	34	0.15	0.11	2	0.67	0.012	4.8	1,800
		MCL	~	~	80	5	~	7	5	5	5	~	~	6	~
NAT-1	11/19/1996		<100	---	---	---	---	---	---	---	---	---	---	---	---
	2/6/1997		<100	---	---	---	---	---	---	---	---	---	---	---	---
	5/23/1997		**904**	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/1997		**1,040**	---	---	---	---	---	---	---	---	---	---	---	---
	9/29/1998		**552**	---	---	---	---	---	---	---	---	---	---	---	---
	12/17/1998		**1,020**	---	---	---	---	---	---	---	---	---	---	---	---
	3/19/1999		**932**	---	---	---	---	---	---	---	---	---	---	---	---
	6/25/1999		**786**	---	---	---	---	---	---	---	---	---	---	---	---
	9/24/1999		**756**	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000		**316**	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**8.4**	9.4 U	9.4 U	9.4 U	1000 U
	4/28/2011		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**28**	---	---	---	1000 U
NAT-2	11/19/1996		<100	---	---	---	---	---	---	---	---	---	---	---	---
	2/6/1997		**372**	---	---	---	---	---	---	---	---	---	---	---	---
	5/23/1997		**80,600**	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/1997		**114,000**	---	---	---	---	---	---	---	---	---	---	---	---
	9/29/1998		**66,000**	---	---	---	---	---	---	---	---	---	---	---	---
	12/17/1998		**57,000**	---	---	---	---	---	---	---	---	---	---	---	---
	3/19/1999		**46,000**	---	---	---	---	---	---	---	---	---	---	---	---
	6/25/1999		**72,500**	---	---	---	---	---	---	---	---	---	---	---	---
	9/24/1999		**43,900**	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000		**56,000**	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007		**34,000**	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.60 J**	**3.0 J**	9.8 U	9.8 U	1000 U
	4/28/2011		**18,000**	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.2**	**1.5 J**	0.96 U	1.9 U	**4,400,000 L**
NAT-3	11/19/1996		**187**	---	---	---	---	---	---	---	---	---	---	---	---
	2/6/1997		**670**	---	---	---	---	---	---	---	---	---	---	---	---
	5/23/1997		**176,000**	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/1997		**150,000**	---	---	---	---	---	---	---	---	---	---	---	---
	9/29/1998		**119,000**	---	---	---	---	---	---	---	---	---	---	---	---
	12/17/1998		**106,000**	---	---	---	---	---	---	---	---	---	---	---	---
	3/19/1999		**85,000**	---	---	---	---	---	---	---	---	---	---	---	---
	6/25/1999		**91,100**	---	---	---	---	---	---	---	---	---	---	---	---
	9/24/1999		**73,500**	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000		**106,800**	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007		**92,000**	**0.49 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**14**	9.8 U	9.8 U	1000 U
	4/28/2011		**83,000**	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	**0.3 J**	1.0 U	**6.8**	0.96 U	1.9 U	1000 U
NAT-4	11/19/1996		**137**	---	---	---	---	---	---	---	---	---	---	---	---
	2/6/1997		**544**	---	---	---	---	---	---	---	---	---	---	---	---
	5/23/1997		**51,000**	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/1997		**68,000**	---	---	---	---	---	---	---	---	---	---	---	---
	9/29/1998		**134,000**	---	---	---	---	---	---	---	---	---	---	---	---
	12/17/1998		**995**	---	---	---	---	---	---	---	---	---	---	---	---
	3/19/1999		**54,000**	---	---	---	---	---	---	---	---	---	---	---	---
	6/25/1999		**10,300**	---	---	---	---	---	---	---	---	---	---	---	---
	9/24/1999		**48,200**	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000		**14,500**	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007		**640**	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.8 U	9.8 U	9.8 U	1000 U
	5/2/2011		**370**	**1.4 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 UL

Attachment J
Groundwater Trending Tables, Natrosol Lagoon
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Nickel	Thallium	Vanadium	Nitrate as N
		3,700	0.045	730	1.8	~	1.1	2,600	~	88	73	0.037	18	5,800
		~	10	2,000	5	100	~	~	15	~	~	2	~	10,000
NAT-1	11/19/1996	---	---	---	---	---	<5	---	---	---	---	---	---	---
	2/6/1997	---	---	---	---	---	<5	---	---	---	---	---	---	---
	5/23/1997	---	---	---	---	---	**6**	---	---	---	---	---	---	---
	8/7/1997	---	---	---	---	---	**5**	---	---	---	---	---	---	---
	9/29/1998	---	---	---	---	---	<5	---	---	---	---	---	---	---
	12/17/1998	---	---	---	---	---	<5	---	---	---	---	---	---	---
	3/19/1999	---	---	---	---	---	<5	---	---	---	---	---	---	---
	6/25/1999	---	---	---	---	---	<5	---	---	---	---	---	---	---
	9/24/1999	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007	**500**	**0.67 B**	**80**	**0.29 J**	**3.5 J**	**3.9**	**400**	**0.36 J**	**690**	**11**	1.0 U	**5.0**	**10,000**
	4/28/2011	**680**	2.5 U	**55**	**0.63**	5 U	**41 J**	**680**	**1.3 J**	**2,300**	**14**	1.0 U	**3.7 J**	**13,000**
NAT-2	11/19/1996	---	---	---	---	---	**11**	---	---	---	---	---	---	---
	2/6/1997	---	---	---	---	---	**10**	---	---	---	---	---	---	---
	5/23/1997	---	---	---	---	---	**9**	---	---	---	---	---	---	---
	8/11/1997	---	---	---	---	---	**9**	---	---	---	---	---	---	---
	9/29/1998	---	---	---	---	---	**11**	---	---	---	---	---	---	---
	12/17/1998	---	---	---	---	---	**11**	---	---	---	---	---	---	---
	3/19/1999	---	---	---	---	---	**14**	---	---	---	---	---	---	---
	6/25/1999	---	---	---	---	---	**10**	---	---	---	---	---	---	---
	9/24/1999	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007	**1,200**	**7**	**67**	0.50 U	**8.8**	**6.7**	**5,500**	**0.88 J**	**150**	**8.8**	1.0 U	**6.6**	50 U
	4/28/2011	**1,200**	**3.9**	**53**	**0.27 J**	**3.5 J**	**3.8 J**	**6,800**	**0.74 J**	**160**	**4.4 J**	1.0 U	**4.6 J**	**530**
NAT-3	11/19/1996	---	---	---	---	---	**25**	---	---	---	---	---	---	---
	2/6/1997	---	---	---	---	---	**22**	---	---	---	---	---	---	---
	5/23/1997	---	---	---	---	---	**23**	---	---	---	---	---	---	---
	8/11/1997	---	---	---	---	---	**23**	---	---	---	---	---	---	---
	9/29/1998	---	---	---	---	---	**23**	---	---	---	---	---	---	---
	12/17/1998	---	---	---	---	---	**24**	---	---	---	---	---	---	---
	3/19/1999	---	---	---	---	---	**23**	---	---	---	---	---	---	---
	6/25/1999	---	---	---	---	---	**23**	---	---	---	---	---	---	---
	9/24/1999	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007	**410**	**6.4**	**130**	0.50 U	**11**	**27**	**3,000**	**0.74 J**	**2,800**	**35**	1.0 U	**9.0**	50 U
	4/28/2011	**340**	**6.1**	**94**	**0.36 J**	**2.5 J**	**16 J**	**3,200**	1.5 U	**1,800**	**22**	1.0 U	**5 J**	**400**
NAT-4	11/19/1996	---	---	---	---	---	**6**	---	---	---	---	---	---	---
	2/6/1997	---	---	---	---	---	**5**	---	---	---	---	---	---	---
	5/23/1997	---	---	---	---	---	<5	---	---	---	---	---	---	---
	8/11/1997	---	---	---	---	---	<5	---	---	---	---	---	---	---
	9/29/1998	---	---	---	---	---	**24**	---	---	---	---	---	---	---
	12/17/1998	---	---	---	---	---	<5	---	---	---	---	---	---	---
	3/19/1999	---	---	---	---	---	**5**	---	---	---	---	---	---	---
	6/25/1999	---	---	---	---	---	**78**	---	---	---	---	---	---	---
	9/24/1999	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/6/2007	**3,200**	**2.5 B**	**57**	0.50 U	**19.0**	**2.3**	**9,600**	**2.2**	**120**	**13**	1.0 U	**14**	50 U
	5/2/2011	**44,000**	**15**	**230**	**0.2 J**	**78**	**14**	**54,000**	**34**	**370**	**27**	1.0 U	**130**	**1,100**

Attachment J
Groundwater Trending Tables, Reten-Aqualon Basin
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Analyte (µg/L)	*tert*- Butyl alcohol	Diethyl ether	Chloroform	Methylene chloride	1,1,2,2-Tetrachloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Tetrachloroethene	Trichloroethylene (TCE)	1,4-dioxane	bis(2-chloroethyl) ether	bis(2-ethylhexyl) phthalate	Methanol	2-Butoxyethanol
		Tapwater	12	730	0.19	4.8	0.067	34	0.15	0.11	2	0.67	0.012	4.8	1,800	~
		MCL	~	~	80	5	~	7	5	5	5	~	~	6	~	~
RAB-MW2	12/16/2001		<5,000	**1.2 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<10	<10	<5,000	<5,000
	5/31/2007		**560**	**4.7 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4 U	9.4 U	9.4 U	**1,100**	---
	4/28/2011		**160**	**10**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U	---
RAB-MW3	12/16/2001		<5,000	**5.8**	<1.0	<1.0	<1.0	**0.58 J**	<1.0	<1.0	<1.0	<200	<10	**2.7 J**	<5,000	<5,000
	5/30/2007		**60**	**2.9 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.7 U	9.7 U	<1,000	---
	4/28/2011		**270**	**1.8 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U	---
RAB-MW4	12/16/2001		<5,000	**0.38 J**	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0	**0.98 J**	<200	<10	**3.2 J**	<5,000	<5,000
	5/31/2007		**30**	**11**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4 U	9.4 U	9.4 U	**890 J**	---
	4/28/2011		5.0 U	**4.3 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U	---

Well ID	Sampling Date	Analyte (µg/L)	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Nickel	Thallium	Vanadium
		Tapwater	3,700	0.045	730	1.8	~	1.1	2,600	~	88	73	0.037	18
		MCL	~	10	2,000	5	100	~	~	15	~	~	2	~
RAB-MW2	12/16/2001		**2,200**	**6 B**	**120 B**	<2.0	**6**	**56 L**	**215 J**	**10**	**5.5 J**	**39 B J L**	**10**	**22 B L**
	5/31/2007		**1,200**	**9.3**	**110**	**0.20 J**	**69**	**150**	**130,000**	**18**	**12,000**	**100**	**0.42 J**	**68**
	4/28/2011		**470**	**5.6**	**46**	**0.23 J**	**6.7**	**120 J**	**96,000**	**0.68 J**	**12,000**	**68**	1.0 U	**3.9 J**
RAB-MW3	12/16/2001		**240**	**6 B**	**310**	<2.0	**3 B**	**16 B**	**181 J**	<3.0	**0.76 J**	**18 B J**	<10	**5 B**
	5/30/2007		**410**	**5.5**	**200**	0.50 U	**4.5 J**	**13**	**150,000**	**0.62 J**	**500**	**14**	**0.46 J**	**7.4**
	4/28/2011		**8,000**	**6.6**	**210**	0.50 U	**16**	**9.5 J**	**130,000**	**10**	**420**	**13**	1.0 U	**26**
RAB-MW4	12/16/2001		**1,100**	<10	**15 B**	<2.0	**7**	<50	**1.2 J**	<3.0	**0.47 J**	**50 J**	<10	**2 B**
	5/31/2007		**3,200**	**5.2**	**130**	**0.47 J**	**79**	**12**	**32,000**	**17**	**660**	**77**	**0.41 J**	**95**
	4/28/2011		**2,600**	**1.3 J**	**18**	**0.5**	**8.3**	**2.5 J**	**3,000**	**1.5**	**610**	**51**	1.0 U	**7.4 J**

Attachment J
Groundwater Trending Tables, Sludge Drying Beds
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Analyte (µg/L)	*tert*- Butyl alcohol	Diethyl ether	Chloroform	Methylene chloride	1,1,2,2-Tetrachloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Tetrachloroethene	Trichloroethylene (TCE)	1,4-dioxane	bis(2-chloroethyl) ether	bis(2-ethylhexyl) phthalate	Methanol
		Tapwater	12	730	0.19	4.8	0.067	34	0.15	0.11	2	0.67	0.012	4.8	1,800
		MCL	~	~	80	5	~	7	5	5	5	~	~	6	~
SDB-MW1	6/5/2007		**3.0 J**	**0.54 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.7 U	9.7 U	1000 U
	4/26/2011		**3.1 J**	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U
SDB-MW2	6/5/2007		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.8 U	9.8 U	9.8 U	1000 U
	4/26/2011		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U
SDB-MW3	6/5/2007		**3.0 J**	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.8 U	9.8 U	9.8 U	1000 U
	4/26/2011		**790**	**440**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U

Well ID	Sampling Date	Analyte (µg/L)	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Nickel	Thallium	Vanadium
		Tapwater	3,700	0.045	730	1.8	~	1.1	2,600	~	88	73	0.037	18
		MCL	~	10	2,000	5	100	~	~	15	~	~	2	~
SDB-MW1	6/5/2007		**9,800**	**7.3**	**540**	**0.28 J**	**22**	**14**	**190,000**	**26**	**2,300**	**10**	**0.46 J**	**45**
	4/26/2011		**13,000**	**7.7**	**490**	0.50 U	**160**	**9**	**230,000**	**9.8**	**2,300**	**95**	1.0 U	**27**
SDB-MW2	6/5/2007		**110**	**1.3 J**	**24**	**0.38 J**	**4.2 J**	**6.3**	**170**	1.5 U	**1,400**	**24**	1.0 U	5.0 U
	4/26/2011		**130**	2.5 U	**15**	**0.34 J**	**3.4 J**	**5.8**	**810**	1.5 U	**1,800**	**29**	1.0 U	10 U
SDB-MW3	6/5/2007		**270**	**1.0 J**	**17**	**0.34 J**	**3.3 J**	**4.5**	**250**	1.5 U	**1,100**	**31**	1.0 U	5.0 U
	4/26/2011		**1,300**	2.5 U	**22**	**0.7**	**19**	**8.4**	**1,700**	**0.91 J**	**1,500**	**46**	1.0 U	**4 J**

Attachment J
Groundwater Trending Tables, Vacuum Filter Sludge Pile
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Analyte (µg/L)	*tert*- Butyl alcohol	Diethyl ether	Chloroform	Methylene chloride	1,1,2,2-Tetrachloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Tetrachloroethene	Trichloroethylene (TCE)	1,4-dioxane	bis(2-chloroethyl) ether	bis(2-ethylhexyl) phthalate	Methanol
		Tapwater	12	730	0.19	4.8	0.067	34	0.15	0.11	2	0.67	0.012	4.8	1,800
		MCL	~	~	80	5	~	7	5	5	5	~	~	6	~
VFSP-MWl	6/6/2007		5.0 U	**76**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.6 U	9.6 U	9.6 U	1000 U
	4/29/2011		**6.3**	**69**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	---	---	---	1000 U

Well ID	Sampling Date	Analyte (µg/L)	Arsenic	Barium	Cadmium	Chromium	Cobalt	Iron	Manganese	Nickel	Thallium	Vanadium
		Tapwater	0.045	730	1.8	~	1.1	2,600	88	73	0.037	18
		MCL	10	2,000	5	100	~	~	~	~	2	~
VFSP-MWl	6/6/2007		**1.5 B**	**140**	0.50 U	**1.4 J**	**2.5**	**4,300**	**750**	**2.1**	1.0 U	**1.5 J**
	4/29/2011		2.5 U	**180**	0.50 U	5.0 U	**2.2**	**3,900**	**760**	**2.4 B**	1.0 U	10 U

Attachment J
Groundwater Trending Tables, Main Holding Basin
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	**Analyte (µg/L)**	*tert*- Butyl alcohol	Diethyl ether	Chloroform	Methylene chloride	1,1,2,2-Tetrachloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Tetrachloroethene	Trichloroethylene (TCE)	1,4-Dichlorobenzene	1,4-dioxane	bis(2-chloroethyl) ether	bis(2-ethylhexyl) phthalate
		Tapwater	12	730	0.19	4.8	0.067	34	0.15	0.11	2	0.43	0.67	0.012	4.8
		MCL	~	~	80	5	~	7	5	5	5	75	~	~	6
MW-1	7/5/1990			**11,500**					<1		<1				<3
	5/31/2007		50 U	**2,000 J**	10 U	50 U	10 U	10 U	10 U	10 U	10 U	9.4 U	**24**	9.4 U	9.4 U
	5/2/2011		5.0 U	**1,700**	1.0 U	5.0 U	1.0 U	**0.39 J**	1.0 U	1.0 U	**0.15 J**	**0.37 B**	**9.6**	0.95 U	1.9 U
MW-2	7/5/1990			**57,900**					<1		<1				<3
	12-1992			**8,700**		<1					<1				
	5/31/2007		250 U	**11,000 J**	50 U	250 U	50 U	50 U	50 U	50 U	50 U	9.8 U	**24**	9.8 U	9.8 U
	4/29/2011		5.0 U	**10,000**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.29 B**	**21**	**0.22 J**	1.9 U
MW-3	7/5/1990			**230**					<1		<1				<3
	12-1992			**760**		<1					<1				
	6/1/2007		**710**	**190 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 U	10 U
	4/26/2011		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.15 B**	**2.1**	0.96 U	1.9 U
MW-4	7/5/1990			<50					<1		<1				<3
	12-1992			**1,260**		<1					<1				
	6/1/2007		**2,700**	**1,300**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	**5.9 J**	9.7 U	9.7 U
	4/29/2011		**2,800**	**1,400**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.41 B**	**4**	0.96 U	1.9 U
MW-4U	7/5/1990			**900**					<1		<1				<3
	12-1992			**1,660**		<1					<1				
	6/1/2007		**2,800**	**1,300**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.8 U	**5.9 J**	9.8 U	9.8 U
	4/29/2011		**3,400**	**1,700**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.4 B**	**5.1**	0.95 U	1.9 U
MW-5	7/5/1990			**150**					<1		<1				<5
	12-1992			**350**		<1					<1				
	6/1/2007		**340**	**280**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.7 U	9.7 U	9.7 U
	4/29/2011		**150**	**200**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.31 B**	**1.3 J**	0.95 U	1.9 U
MW-5U	7/6/1990		**670**						<1		<1				<3
	12-1992			**1,200**		<1					<1				
	6/1/2007		**150**	**320**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.8 U	9.8 U	9.8 U	9.8 U
	4/29/2011		5.0 U	**650**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.67 B**	**2.7**	0.97 U	1.9 U
MW-5D	12/30/1992		<100	<50		<1					<1.2				
MW-6	7/6/1990		<50						<1		<1				**3**
	12-1992			**1,040**		<1					<1				
	6/1/2007		**1,200**	**4,000**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.8 U	9.8 U	9.8 U	9.8 U
	4/26/2011		**1,600**	**1,300**	20 U	100 U	20 U	20 U	20 U	20 U	20 U	**0.13 B**	**2.7**	1.1 U	2.2 U
MW-7L	7/6/1990		<50						<1		<1				<3
	6/4/2007		5.0 U	**1.0 J**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.4 U	9.4 U	9.4 U
	4/28/2011		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.17 B**	1.9 U	0.95 U	1.9 U
MW-7U	7/6/1990		<50						<1		<1				**8**
	12-1992			<50		<1					<1				
	6/5/2007		**7.7**	**74**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4 U	9.7 U	9.7 U	9.7 U
	4/28/2011		**6.1**	**93**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.54 J**	**0.12 B**	**1.2 J**	0.95 U	1.9 U
MW-8D	12/30/1992		<100	<50		<1					<1.2				
	6/4/2007		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7 U	9.7 U	9.7 U	9.7 U
	4/26/2011		5.0 U	10 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.15 B**	1.9 U	0.95 U	1.9 U
MW-8U	7/6/1990		**6,600**						<1		<1				<3
	12-1992			**1,660**		<1					<1				
	6/4/2007		**1,500**	**2,400**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.8 U	**20**	9.8 U	9.8 U
	4/26/2011		**1,800**	**1,800**	20 U	100 U	20 U	20 U	20 U	20 U	20 U	**0.12 B**	**8.6**	0.96 U	1.9 U
MW-8L	7/6/1990		**6,700**						<1		<1				<3
	12-1992			**3,500**		<1					<1				
	7/6/2007		**5,000**	**3,200**	100 U	500 U	100 U	100 U	100 U	100 U	100 U	9.7 U	**23**	9.7 U	9.7 U
MW-9	12/30/1992		<100	**3,080**		<1					<1.2				
	6/4/2007		**87**	**1,200**	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**9.4 J**	10 U	10 U	10 U	10 U
	4/29/2011		**130 J**	**3,300**	1.0 U	5.0 U	1.0 U	**0.65 J**	1.0 U	1.0 U	1.0 U	**0.3 B**	**9.8**	0.95 U	1.9 U
MW-10	12/29/1992		<100	<50		<1					<1.2				
	5/31/2007		5.0 U	**1.6 J**	**0.65 J**	5.0 U	**0.96 J**	**2.5**	1.0 U	**22**	**3.2**	9.4 U	**18**	9.4 U	9.4 U
	4/28/2011		5.0 U	**20**	**0.94 J**	5.0 U	**0.5 J**	**1.8**	**0.21 J**	**13**	**2.1**	**0.14 B**	**24**	0.96 U	1.9 U

Attachment J
Groundwater Trending Tables, Main Holding Basin
Hercules - Aqualon
Hopewell, Virginia

Well ID	Sampling Date	Naphthalene	Methanol	Aluminum	Arsenic	Barium	Cadmium	Chromium	Cobalt	Iron	Manganese	Mercury	Nickel	Thallium	Vanadium
		0.14	1,800	3,700	0.045	730	1.8	~	1.1	2,600	88	0.063	73	0.037	18
		~	~	~	10	2,000	5	100	~	~	~	2	~	2	~
MW-1	7/5/1990		<100		<1	<100	**0.8**	**134**		**60,000**	---	<0.2	---	---	---
	5/31/2007	9.4 U	**490 J**	**25 J**	2.5 U	**77**	0.50 U	**7.7**	**2.3**	**12,000**	**3,500**	0.5 U	**4.3**	1.0 U	5.0 U
	5/2/2011	0.19 U	1000 UL	**60 J**	2.5 U	**65**	0.50 U	**14**	**1.1**	**8,600**	**3,000**	0.8 U	**9.5**	1.0 U	10 U
MW-2	7/5/1990		<100		**22**	**100**	**1.6**	**6**	---	**143,000**	---	<0.2	---	---	---
	12-1992				**8**	**620**	**1.8**	**5**	---	**410,000**	**16,000**	<0.2	---	---	---
	5/31/2007	9.8 U	**960 J**	**92**	**5.7**	**120**	0.50 U	**2.9 J**	**22**	**160,000**	**12,000**	0.5 U	**3.9**	1.0 U	5.0 U
	4/29/2011	0.19 U	**120,000**	**840**	**4**	**180**	**0.16 J**	**3.4 J**	**33**	**150,000**	**9,600**	0.8 U	**7.5**	1.0 U	**3.8 J**
MW-3	7/5/1990		<100		**4**	<100	**1.6**	**2**	---	**9,300**	---	<0.2	---	---	---
	12-1992				**10**	**330**	**0.5**	**3**	---	**19,000**	**620**	<0.2	---	---	---
	6/1/2007	10 U	**1,600**	**62**	**1.9 J**	**300**	0.50 U	**2.2 J**	**0.87**	**13,000**	**520**	0.5 U	**1.5**	1.0 U	5.0 U
	4/26/2011	0.19 U	1000 U	**250**	**2.4 J**	**460**	**0.23 J**	**3.4 J**	**1**	**19,000**	**830**	0.8 U	**3.7 J**	1.0 U	10 U
MW-4	7/5/1990		<100		**3**	<100	**2.5**	**4**	---	**37,000**	---	<0.2	---	---	---
	12-1992				**3**	**610**	**0.6**	**12**	---	**62,000**	**3,500**	<0.2	---	---	---
	6/1/2007	9.7 U	**1,200**	**450**	**4.2**	**790**	0.50 U	**6.0**	**8.1**	**56,000**	**2,000**	0.5 U	**4.2**	1.0 U	**5.4**
	4/29/2011	0.19 U	**5,100**	**120**	**3.8**	**760**	0.50 U	**4.1 J**	**9.5**	**61,000**	**2,300**	0.8 U	**4.3 B**	1.0 U	**4.3 J**
MW-4U	7/5/1990		<100		**3**	**100**	**0.9**	**11.0**	---	**43,000**	---	**0.3**	---	---	---
	12-1992				**4**	**750**	**1.0**	**510.0**	---	**82,000**	**2,800**	<0.2	---	---	---
	6/1/2007	9.8 U	**2,600**	**380**	**3.3**	**1,100**	0.50 U	**5.3**	**93**	**73,000**	**4,700**	0.5 U	**25**	1.0 U	**5.1**
	4/29/2011	0.19 U	1000 U	**800**	**4.7**	**810**	0.50 U	**11.0**	**31.0**	**96,000**	**1,900**	**0.58 J**	**12**	1.0 U	**6.2 J**
MW-5	7/5/1990		<100		**2**	<100	**3.2**	**5**	---	**77,000**	---	<0.2	---	---	---
	12-1992				**3**	**1,600**	**3.5**	**16**	---	**104,000**	**5,900**	<0.2	---	---	---
	6/1/2007	9.7 U	**2,200**	**1,100**	**1.8 J**	**970**	0.50 U	**26**	**4.5**	**55,000**	**3,600**	**0.65**	**20**	1.0 U	**8.5**
	4/29/2011	0.19 U	1000 U	**670**	**1.6 J**	**790**	0.50 U	5 U	**1.6**	**53,000**	**3,000**	0.8 U	**2.7 B**	1.0 U	**5 J**
MW-5U	7/6/1990		<5		<1	<100	**3.2**	**3**	---	**7,000**	---	<0.2	---	---	---
	12-1992				**2**	**250**	**2.8**	**7**	---	**18,000**	**6,800**	<0.2	---	---	---
	6/1/2007	9.8 U	**3,000**	**250**	**13**	**120**	**0.44 J**	**10**	**20**	**4,000**	**1,500**	0.5 U	**21**	1.0 U	**1,700**
	4/29/2011	0.19 U	**160,000**	**88 J**	**5.7**	**140**	0.50 U	**4.8 J**	**9.6**	**13,000**	**2,100**	8 U	**8.9 B**	1.0 U	**240**
MW-5D	12/30/1992		<100		**2**	**100**	**3**	**2**	---	**800**	**270**	**0.2**	---	---	---
MW-6	7/6/1990		<5		**1**	<100	**1.6**	**3**	---	**66,000**	---	<0.2	---	---	---
	12-1992				**3**	**360**	**1**	**38**	---	**60,000**	**4,700**	<0.2	---	---	---
	6/1/2007	9.8 U	**1,600**	**1,200**	**2.7**	**500**	0.50 U	**15**	**16**	**81,000**	**3,600**	0.5 U	**13**	1.0 U	**7.3**
	4/26/2011	0.22 U	1000 U	**820**	**2.1 J**	**480**	**0.44 J**	**4.8 J**	**32**	**56,000**	**5,900**	0.8 U	**8.3**	1.0 U	**5.4 J**
MW-7L	7/6/1990		<5		**2**	**100**	**0.3**	**13**	---	**10,500**	---	**0.5**	---	---	---
	6/4/2007	9.4 U	**890 J**	**470**	2.5 U	**130**	**0.14 J**	**7.7**	**3.6**	**2,100**	**760**	0.5 U	**6.3**	1.0 U	5.0 U
	4/28/2011	0.19 U	**2,200**	**3,400**	**1.5 J**	**160**	**0.16 J**	**13**	**6.1 J**	**79,000**	**810**	0.8 U	**8.7**	1.0 U	**11**
MW-7U	7/6/1990		<5		<1	<100	**0.5**	**3**	---	**3,100**	---	**0.3**	---	---	---
	12-1992				**8**	**1,400**	**4.8**	**5**	---	**4,000**	**4,400**	<0.2	---	---	---
	6/5/2007	9.7 U	1000 U	**390**	**1.0 J**	**84**	**9.6**	**24**	**330**	**29,000**	**32,000**	**1.3**	**100**	1.0 U	5.0 U
	4/28/2011	**0.18 J**	1000 U	**460**	**1.4 J**	**56**	**11**	5 U	**440 J**	**43,000**	**48,000**	**1.6**	**130**	1.0 U	10 U
MW-8D	12/30/1992		<100		**3**	**100**	**0.3**	**2**	---	**9,800**	**300**	<0.2	---	---	---
	6/4/2007	9.7 U	**1,200**	**180**	2.5 U	**72**	0.50 U	**2.3 J**	**0.61**	**720**	**220**	0.5 U	**1.9**	1.0 U	5.0 U
	4/26/2011	0.19 U	1000 U	**700**	2.5 U	**77**	**2.9**	**3.3 J**	**0.29 J**	**1,100**	**250**	0.8 U	**3.2 J**	1.0 U	10 U
MW-8U	7/6/1990		<5		**20**	**200**	**2.8**	**5**	---	**14,000**	---	**0.3**	---	---	---
	12-1992				**5**	**310**	**1.7**	**12**	---	**17,000**	**1,700**	**0.5**	---	---	---
	6/4/2007	9.8 U	**1,900**	**92**	**24**	**470**	0.50 U	**3.8**	**6.5**	**29,000**	**1,200**	0.5 U	**3.4**	1.0 U	**7.5**
	4/26/2011	0.19 U	1000 U	**4,700**	**15**	**340**	**0.28 J**	**29**	**20**	**36,000**	**2,400**	0.8 U	**19**	1.0 U	**14**
MW-8L	7/6/1990		<5		**33**	**200**	**3.2**	**4**	---	**18,000**	---	**0.3**	---	---	---
	12-1992				**10**	**540**	**2.7**	**18**	---	**21,000**	**1,100**	**0.3**	---	---	---
	7/6/2007	9.7 U	1000 U	**110**	**46**	**680**	**0.65**	**3.8 J**	**2.5**	**34,000**	**2,100**	0.5 U	**2.6**	1.0 U	**14**
MW-9	12/30/1992		<100		**7**	**480**	**1.7**	**3**	---	**42,000**	**2,800**	**0.6**	---	---	---
	6/4/2007	9.7 U	**1,600**	**120**	**1.7 J**	**100**	0.50 U	**6.6**	**4.4**	**38,000**	**1,200**	0.5 U	**5.2**	1.0 U	5.0 U
	4/29/2011	0.19 U	1000 U	**1,500**	**4**	**92**	0.50 U	**8.9**	**2.6**	**110,000**	**2,800**	0.8 U	**6.4 B**	1.0 U	**5.7 J**
MW-10	12/29/1992		<100		**2**	**100**	**1.7**	**16**	---	**4,400**	**4,700**	<0.2	---	---	---
	5/31/2007	9.7 U	**680 J**	**370**	**0.86 J**	**16**	**4.6**	**5.5**	**87**	**330**	**5,400**	0.5 U	**87**	1.0 U	**2.5 J**
	4/28/2011	0.19 U	1000 U	**680**	2.5 U	**15**	**4.5**	5 U	**91**	**550**	**4700**	0.8 U	**73**	1.0 U	**3.3 J**